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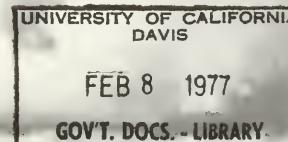
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Rainfall Analysis for Drainage Design Volume III. Intensity-Duration-Frequency Curves

Bulletin No. 195
October 1976

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16. Abstract This report is an analysis of depth-duration-frequency of precipitation in California and contains the annual series extreme values from about 30 rain gage networks in California. A statistical analysis of each record is available, giving 12 return periods ranging from 2 to 10,000 years and durations of 5 minutes to 60 days, including the annual total precipitation. Methods of interstation interpolation are given. Hourly precipitation records of the National Weather Service were reevaluated to develop 5-, 10-, 15-, and 30-minute extreme data. This volume contains precipitation intensity-duration-frequency curves from 500 recording rain gages, based on maximum annual rainfall depths for 5 to 180 minutes. The information contained in this report is intended for use in runoff computation using procedures such as the rational method or the unit hydrograph method. A cooperative computer data bank has been developed to store data on rainfall extremes and to periodically analyze data, as well as to maintain a continuous file for future use by cooperators.			
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**Department of
Water Resources**

Bulletin No. 195

Rainfall Analysis for Drainage Design

**Volume III.
Intensity-Duration-Frequency Curves**

October 1976

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Secretary for Resources**

**The Resources
Agency**

**Edmund G. Brown Jr.
Governor**

**State of
California**

**Ronald B. Robie
Director**

**Department of
Water Resources**

OTHER VOLUMES OF BULLETIN NO. 195
(Bound separately)

Volume I. Short-Duration Precipitation Frequency
Data

Volume II. Long-Duration Precipitation Frequency
Data

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Kern County Water Agency
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Santa Cruz County, Departments of Public Works and Health
Shasta County, Department of Water Resources
Southern California Edison Company
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University of Nevada, Desert Research Institute
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U. S. Bureau of Reclamation
U. S. Forest Service
U. S. Geological Survey
U. S. Marine Corps, Camp Pendleton
U. S. National Weather Service
Ventura County Flood Control District
and many private individuals



Typical modern tipping bucket rain gage
Photo by Weather Measure Corp.

INTRODUCTION

Bulletin No. 195, *Rainfall Analysis for Drainage Design*, is published as three separate volumes that complement one another but may be used independently, as well. Volume I contains short-duration precipitation data. Volume II contains long-duration precipitation data. This volume, Volume III, presents intensity-duration-frequency (IDF) curves for stations with data for precipitation periods of 5 minutes to 24 hours.

The IDF curves are arranged first by county, second by watersheds within each county, and then alphabetically by station name. The drainage basins are depicted on Plate 1. Individual station locations are plotted on Plate 2. Mean annual precipitation is shown on Plate 3.

The data in this volume consist of annual extremes of rainfall for durations of 5 to 180 minutes (reported in Volume I, along with the analysis on which the curves are based). This information is necessary to the design of culverts, spillways, and other drainage facilities. The sizes of such structures are determined by many factors, including the expected rainfall intensities associated with given return periods. These curves have been developed specifically for culvert designers of the California Department of Transportation who need data on rainfall intensity to estimate runoff at culvert sites. The curves are planned for use with simple runoff models, such as the rational formula:

$$Q = 1.008 \text{ CiA} \quad (\text{a})$$

where Q = peak runoff in cubic feet per second

C = runoff coefficient, ranging from "0" for no runoff to "1" for runoff of all rainfall

i = rainfall intensity in inches per hour

A = area in acres

Rainfall intensities are inversely proportional to time; the shorter the period of time, the higher the intensity. Therefore short-duration rainfall is the most critical in culvert design. Short-duration rainfall extremes can be estimated by use of the following equation:

$$I = \bar{P}T^n \quad (\text{b})$$

where I = design storm intensity, in inches per hour

\bar{P} = mean one-hour storm, as a fraction of MAP, in inches

T = time in hours

N = slope of the log-intensity/log-line plot

Design rainfall for various return periods can be developed from the following equation:

$$I_j = MAP \bar{P} (1 + K_j CV) \quad (c)$$

where j refers to return period

I_j = precipitation intensity for return period j

MAP = mean annual precipitation, in inches (see Plate 3)

\bar{P} = mean one-hour storm, as a fraction of MAP, in
in inches (see Plate 4)

K_j = frequency factor (see Table 1)

CV = coefficient of variation (see Figure 1)

Combining equations (b) and (c) yields the equations of the IDF curves of Volume III:

$$K_j = (MAP) (\bar{P}) (1 + K_j CV) T^{-n} \quad (d)$$

K_j is the only value representing different return periods; therefore, the lines on the IDF curves are parallel. The distance between the lines are a function of CV and K_j only. The slope of the IDF curves represents the ratio of short-duration design storms to storms of longer duration

The length of the time period used in a specific application depends on the "time to peak", or time of concentration, which is unique to each watershed. The broad ranges of time represented here are suitable for all but the smallest watersheds. Rooftop and bridge surfaces frequently need data for durations shorter than 5 minutes. No adequate data are available for storms of that duration at the present time; however, estimates of such durations can probably be made from a straight line extension of the IDF curves in this volume.

In some cases, there was no information on one or more of the seven durations of 5, 10, 15, 30, 60, 120, and 180 minutes. Where this has occurred, only those durations that were available were used in this analysis. The durations used are shown on the IDF curves by plotting the mean values just above the two-year return period values.

Figure 1.

REGIONS OF UNIFORM
COEFFICIENT OF VARIATION
SEPT 1975

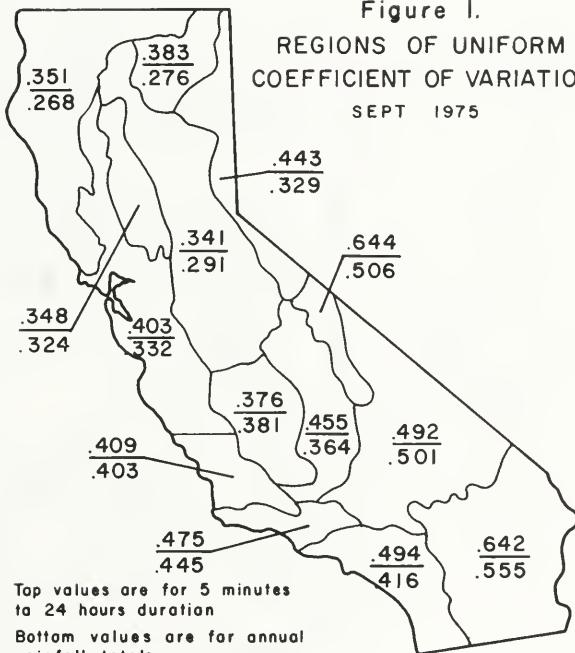


Figure 2.

REGIONS OF UNIFORM
COEFFICIENT OF SKEW
SEPT 1975

Top values are for 5 minutes
to 24 hours duration
Bottom values are for annual
rainfall totals.

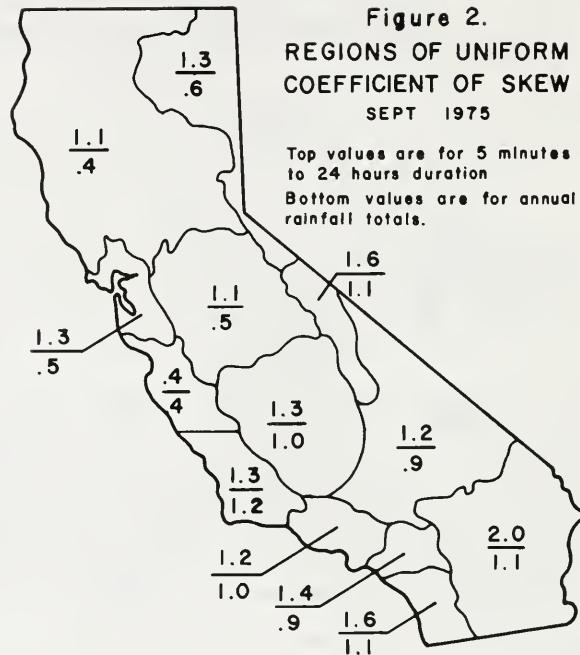


TABLE 1
FREQUENCY FACTORS FOR PEARSON'S TYPE III DISTRIBUTION

Return Period in Years	Coefficient of Skew																		
	.4	.5	.6	.7	.8	.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0		
2	-.07	-.08	-.10	-.12	-.13	-.15	-.16	-.18	-.20	-.21	-.23	-.24	-.25	-.27	-.28	-.29	-.31		
5	.82	.81	.80	.79	.78	.77	.76	.75	.73	.72	.71	.69	.68	.66	.64	.63	.61		
10	1.32	1.32	1.33	1.33	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.33	1.33	1.32	1.32	1.31	1.30		
20	1.75	1.77	1.80	1.82	1.84	1.86	1.88	1.89	1.91	1.92	1.94	1.95	1.96	1.97	1.98	1.99	2.00		
25	1.88	1.91	1.94	1.97	1.99	2.02	2.04	2.06	2.09	2.11	2.13	2.15	2.16	2.18	2.19	2.21	2.22		
40	2.14	2.19	2.22	2.27	2.31	2.35	2.38	2.42	2.45	2.49	2.52	2.55	2.58	2.61	2.64	2.66	2.69		
50	2.26	2.31	2.36	2.41	2.45	2.50	2.54	2.58	2.63	2.67	2.71	2.74	2.78	2.81	2.85	2.88	2.91		
100	2.62	2.69	2.76	2.82	2.89	2.96	3.02	3.09	3.15	3.21	3.27	3.33	3.39	3.44	3.50	3.55	3.61		
200	2.95	3.04	3.13	3.22	3.31	3.40	3.49	3.58	3.66	3.75	3.83	3.91	3.99	4.07	4.15	4.22	4.30		
1,000	3.67	3.81	3.96	4.10	4.24	4.39	4.53	4.67	4.81	4.96	5.10	5.23	5.37	5.51	5.64	5.77	5.91		
2,000	3.96	4.12	4.29	4.46	4.63	4.80	4.97	5.13	5.30	5.47	5.63	5.80	5.96	6.12	6.28	6.44	6.60		
10,000	4.60	4.82	5.05	5.27	5.50	5.72	5.96	6.18	6.41	6.64	6.87	7.09	7.32	7.54	7.77	8.00	8.21		



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Three Rivers 6SE	270	Waterman Gd Sta	108
Three Rivers PH No 1	270	Wawona RS	113
Tiger Creek PH	33	Weaverville	267
Tonopah Nevada	312	Weideman Ranch RRNG	42
Topanga Pat Sta	85	Weldon 1 WSW	61
Trabuco Canyon	147	Wellington R S Nevada	292
Tracy 2 SSE	205	Westminster	145
Trinity Center	266	Westwood	75
Truckee R S	135	Wheatland 2NE	289
Tujunga Mill Creek	84	Wheeler Ridge	60
Tulelake	255	Wheller SP 2SSW	278
Tustin Automatic	144	Wheller Springs 7N	287
Twin Pines	155	Whiskeytown	252
United Technology C	242	White Rock Preston	114
Upland FC650B	191	Williams	38
Upper Franklin Res	107	Willits Howard R S	116
Upper San Leandro Filters	31	Winchester	162
Upper Toro Creek	210	Woodacre	81
Upper Tres Pinos	173	Woodcrest S D F	158
Upper Van Vlick SMUD	48	Wrights Lake SMUD	48
Valleton	130	Yorba Reservoir	138
Van Nuys	108	Yorkville	117
Venado	260	Yosemite N P	113
Ventura County Apt 168	283	Yucaipa Water Co	192
Victorville	179	Yuma Arizona AP NWS	295

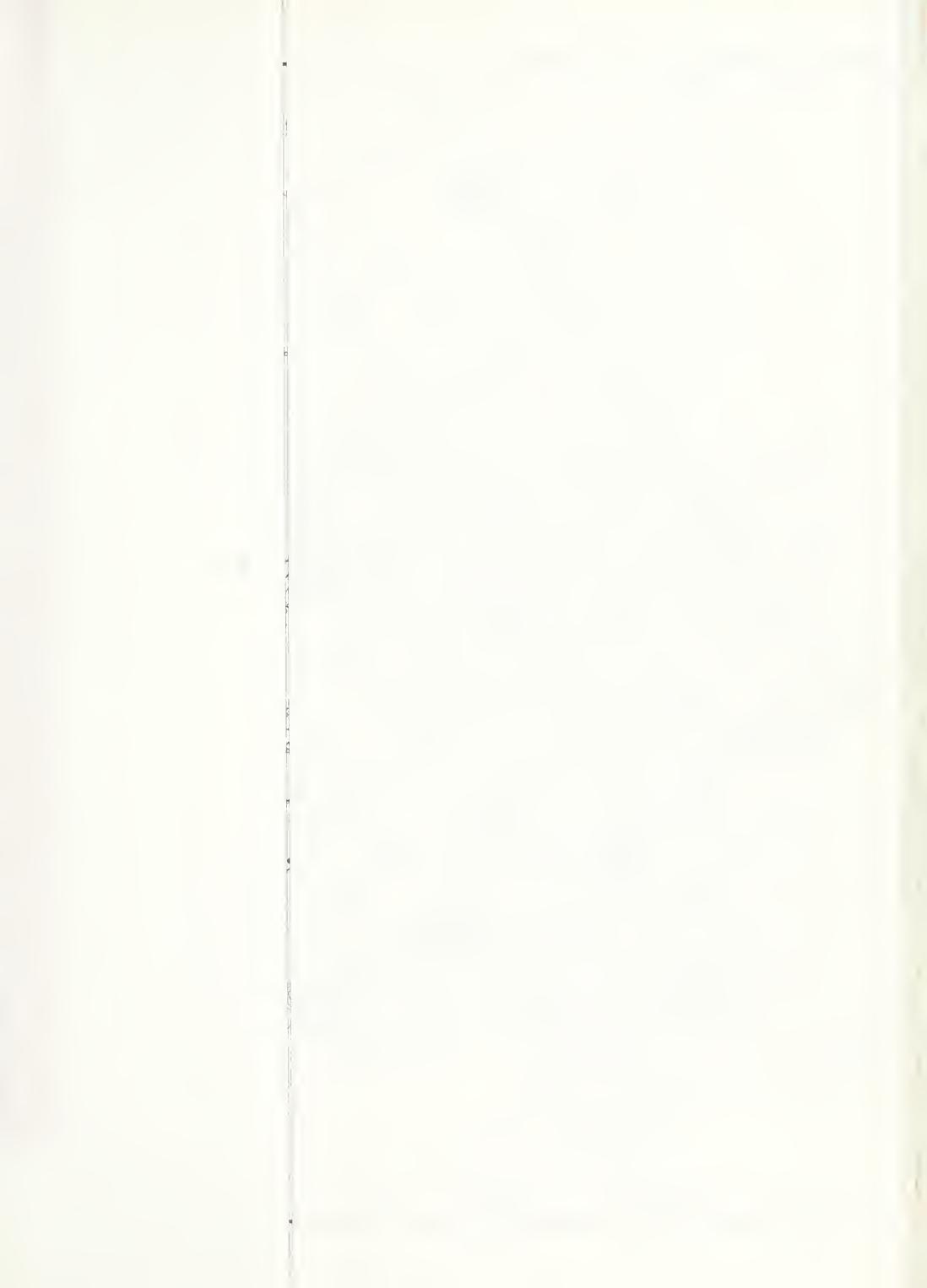




Plate 2 Sheet 1 of 5
Location of
RECORDING RAIN GAGES
June 1976

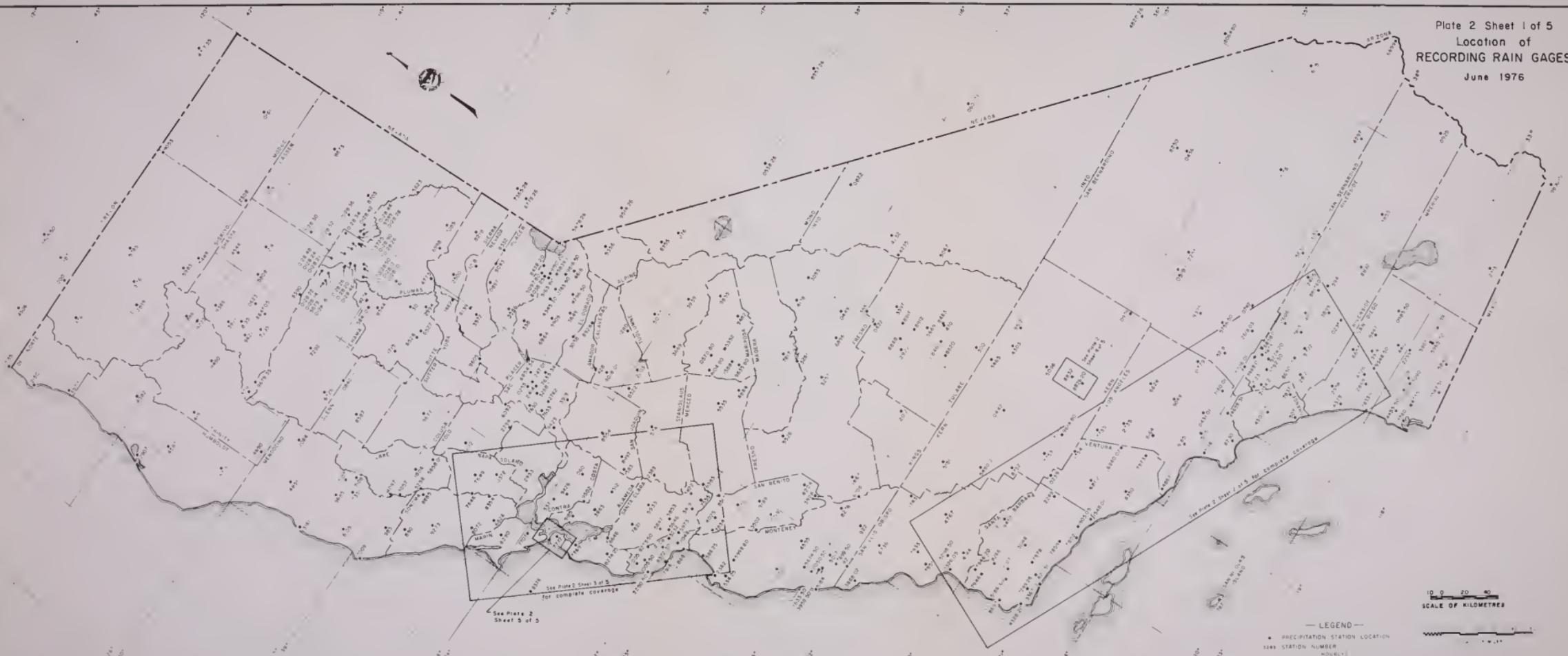




Plate 2 Sheet 2 of 5
Location of
RECORDING RAIN GAGES

June 1976

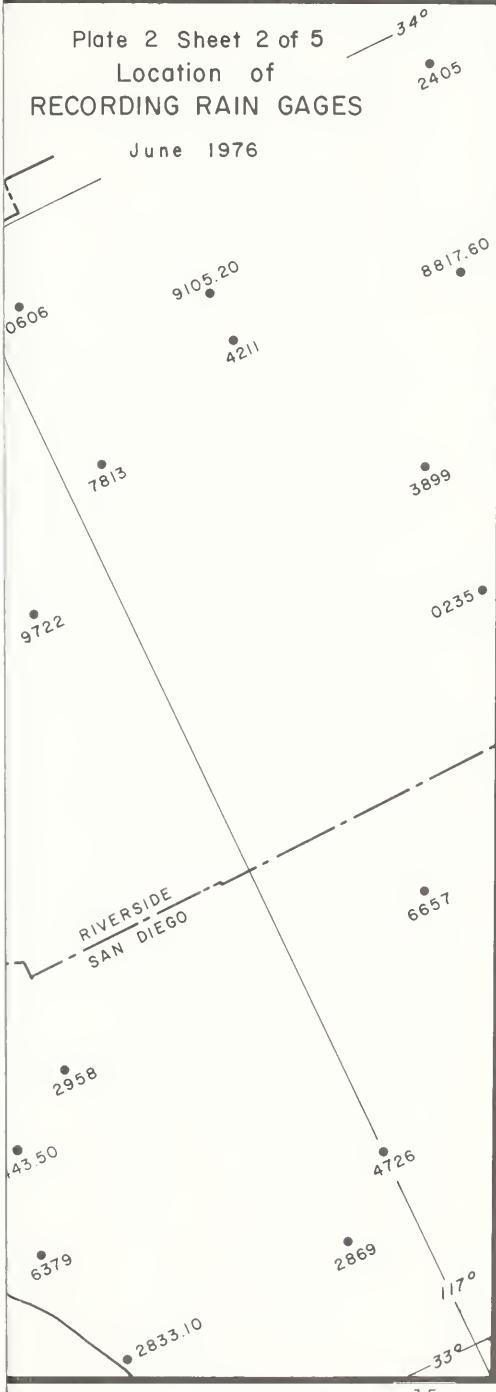
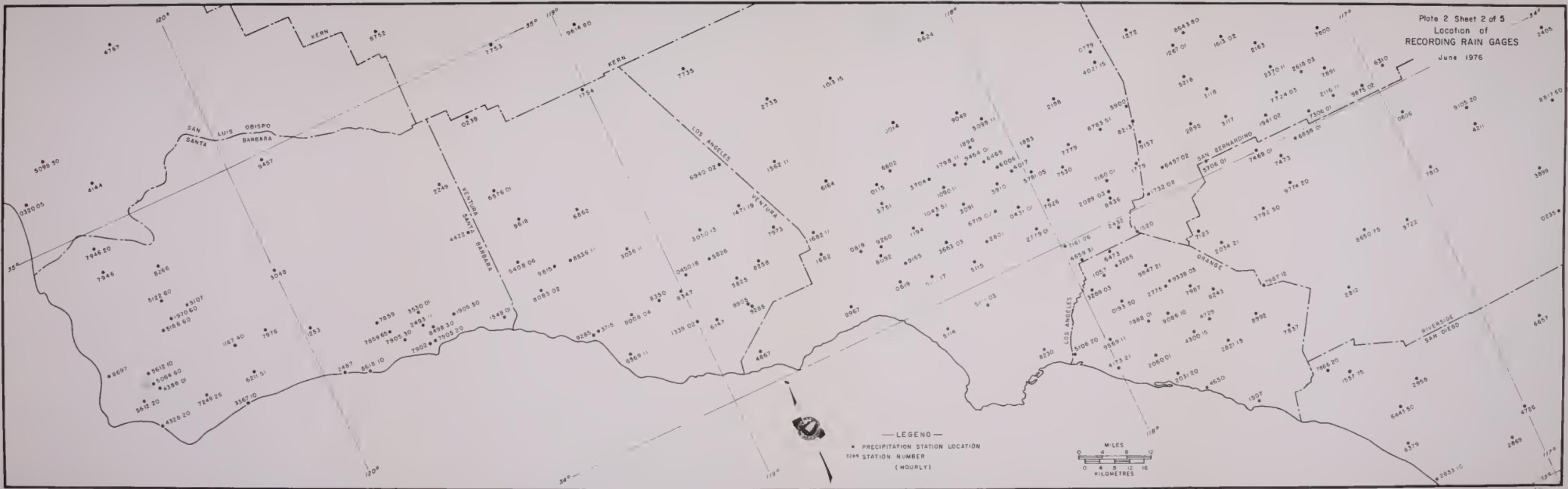


Plate 2 Sheet 2 of 5
Location of
RECORDING RAIN GAGES

June 1976

—LEGEND—
• PRECIPITATION STATION LOCATION
3289 STATION NUMBER
(HOURLY)





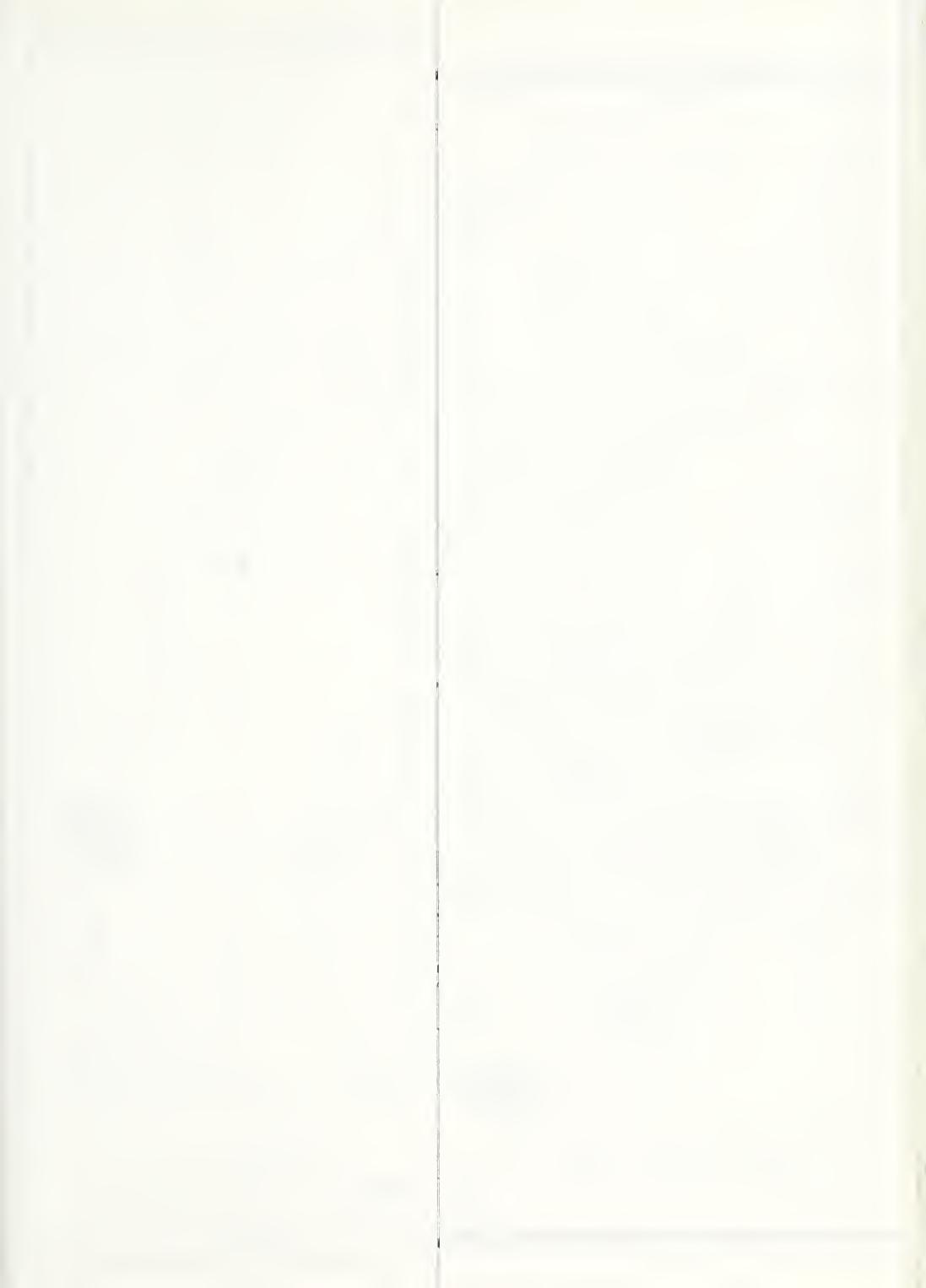




Plate 2 Sheet 3 of 5
Location of
RECORDING RAIN GAGES

June 1976

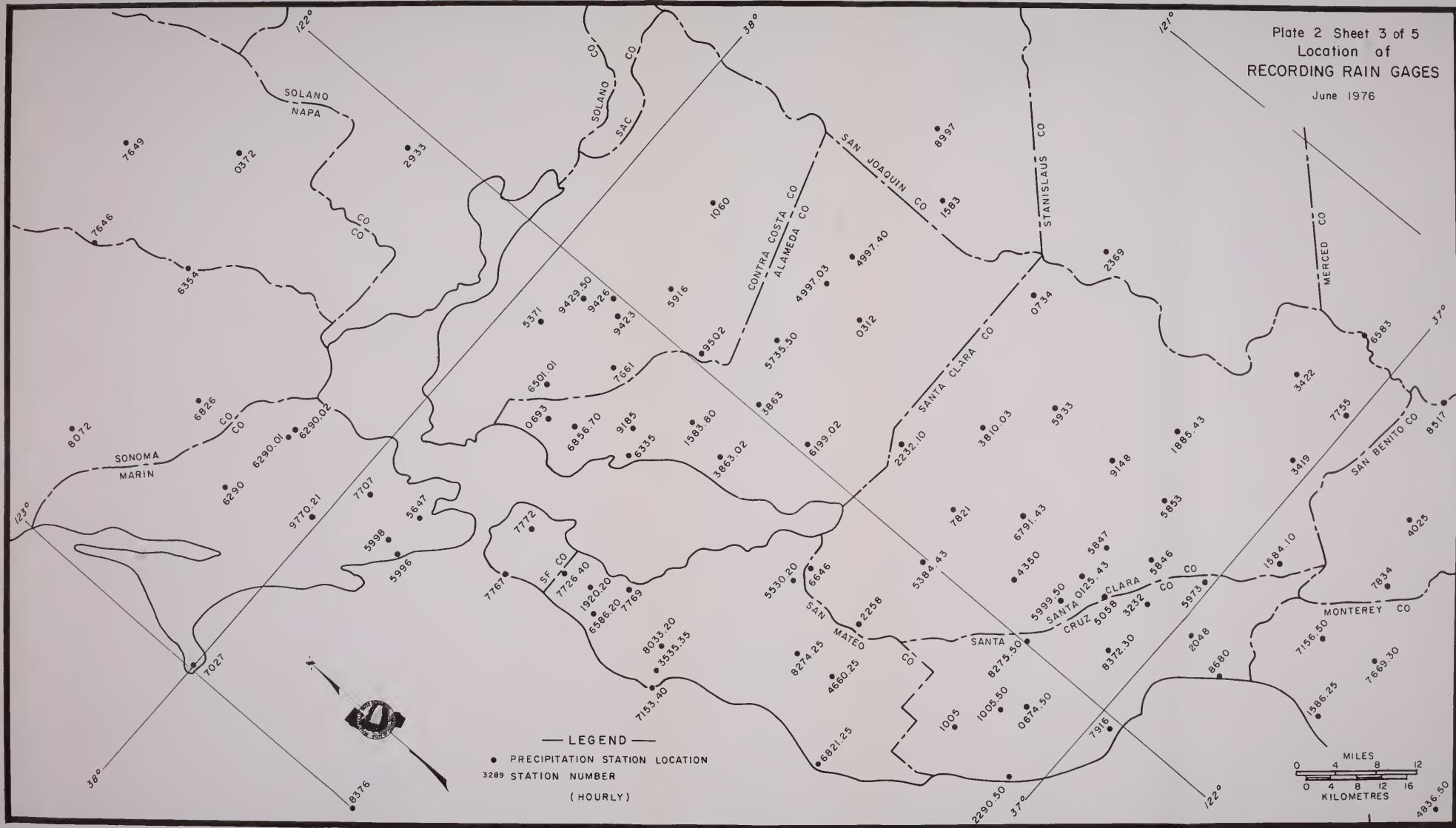
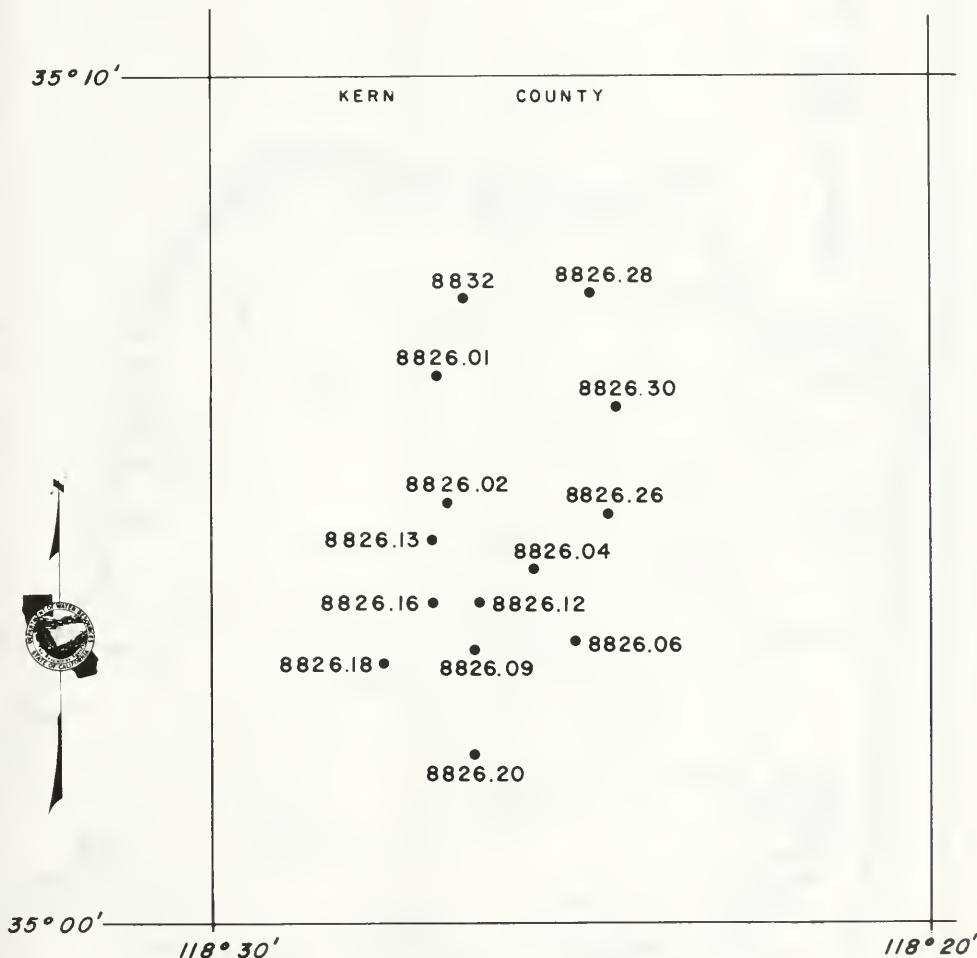




Plate 2 Sheet 4 of 5
Location of
RECORDING RAIN GAGES
June 1976



— LEGEND —

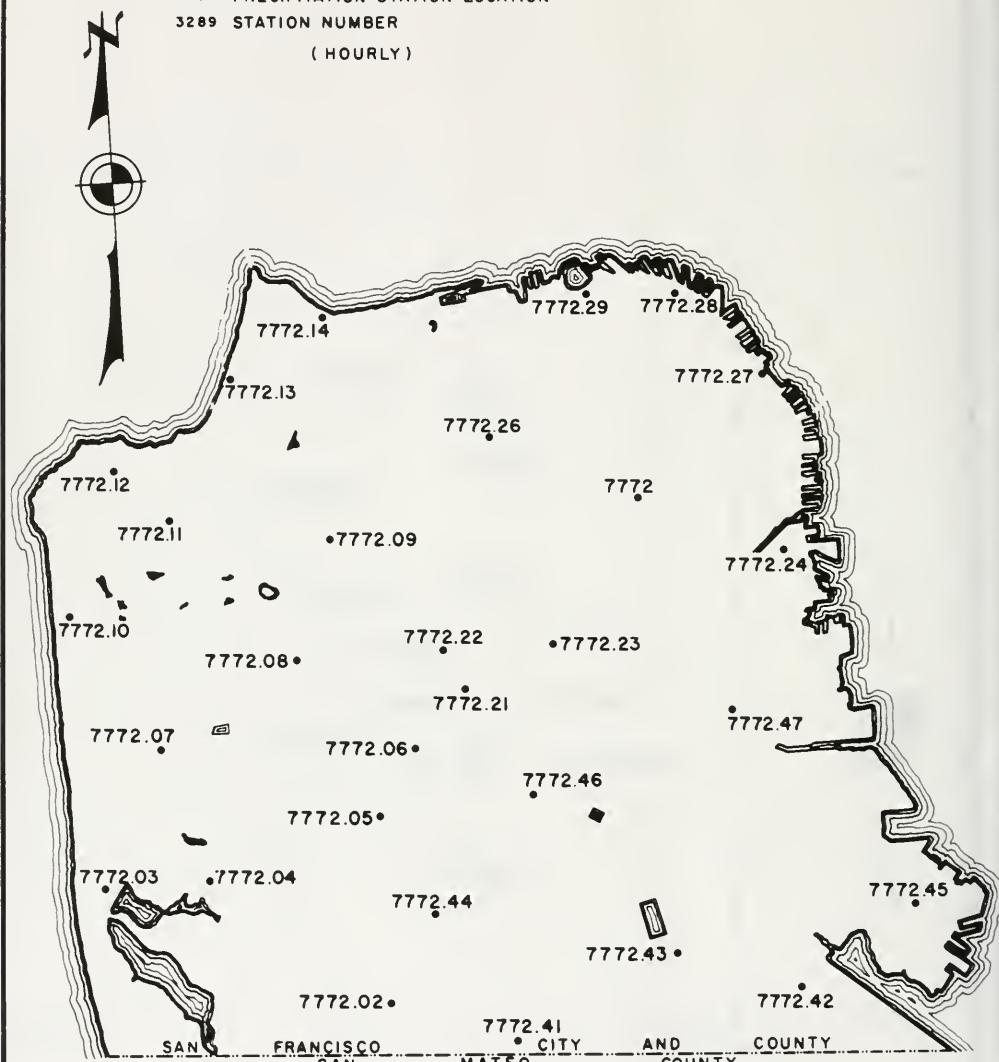
- PRECIPITATION STATION LOCATION
- 3200 STATION NUMBER
- (HOURLY)

Plate 2 Sheet 5 of 5
Location of
RECORDING RAIN GAGES

June 1976

— LEGEND —

- PRECIPITATION STATION LOCATION
- 3289 STATION NUMBER
(HOURLY)



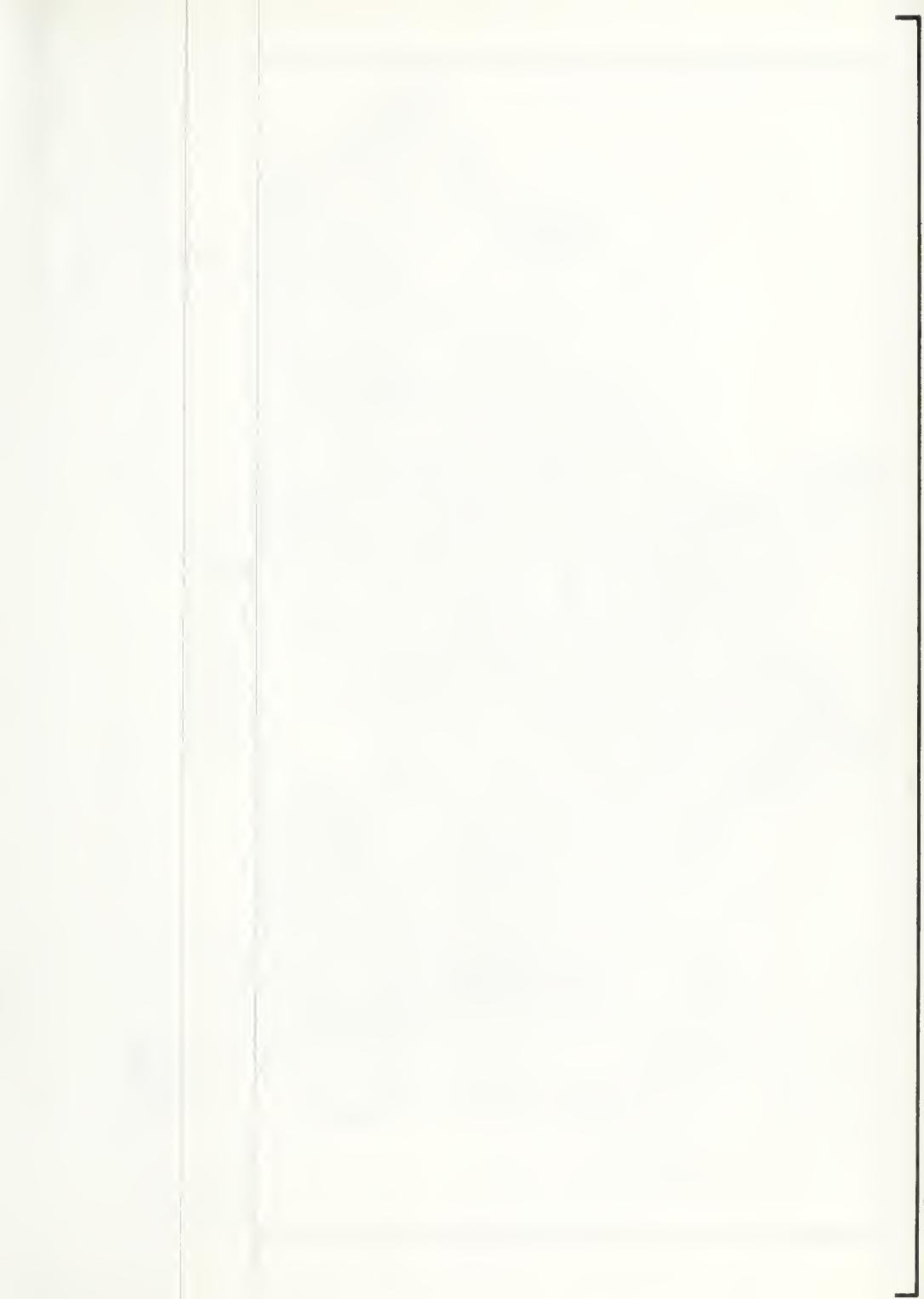




Plate 3
MEAN ANNUAL PRECIPITATION

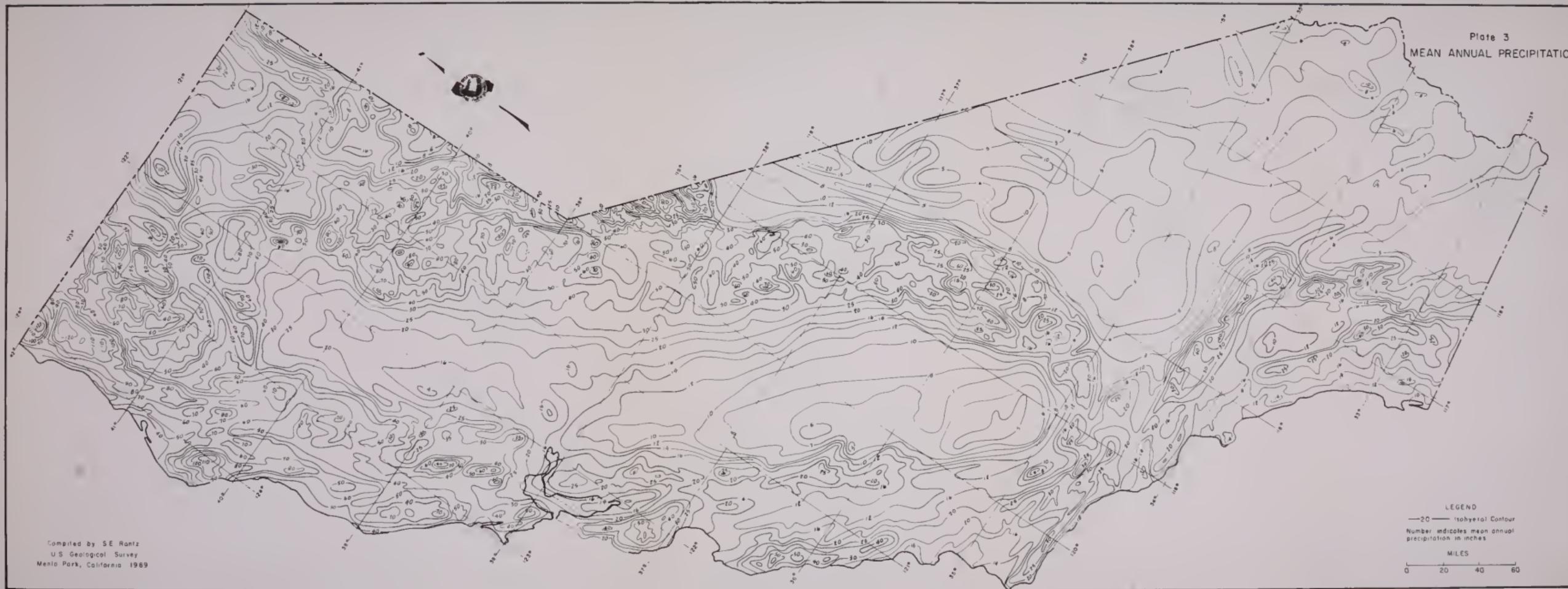




Plate 4

MEAN ONE-HOUR STORM

Units = fraction of the
Mean Annual Precipitation

MILES
0 25 50 75 100

KILOMETRES
0 50 100 150

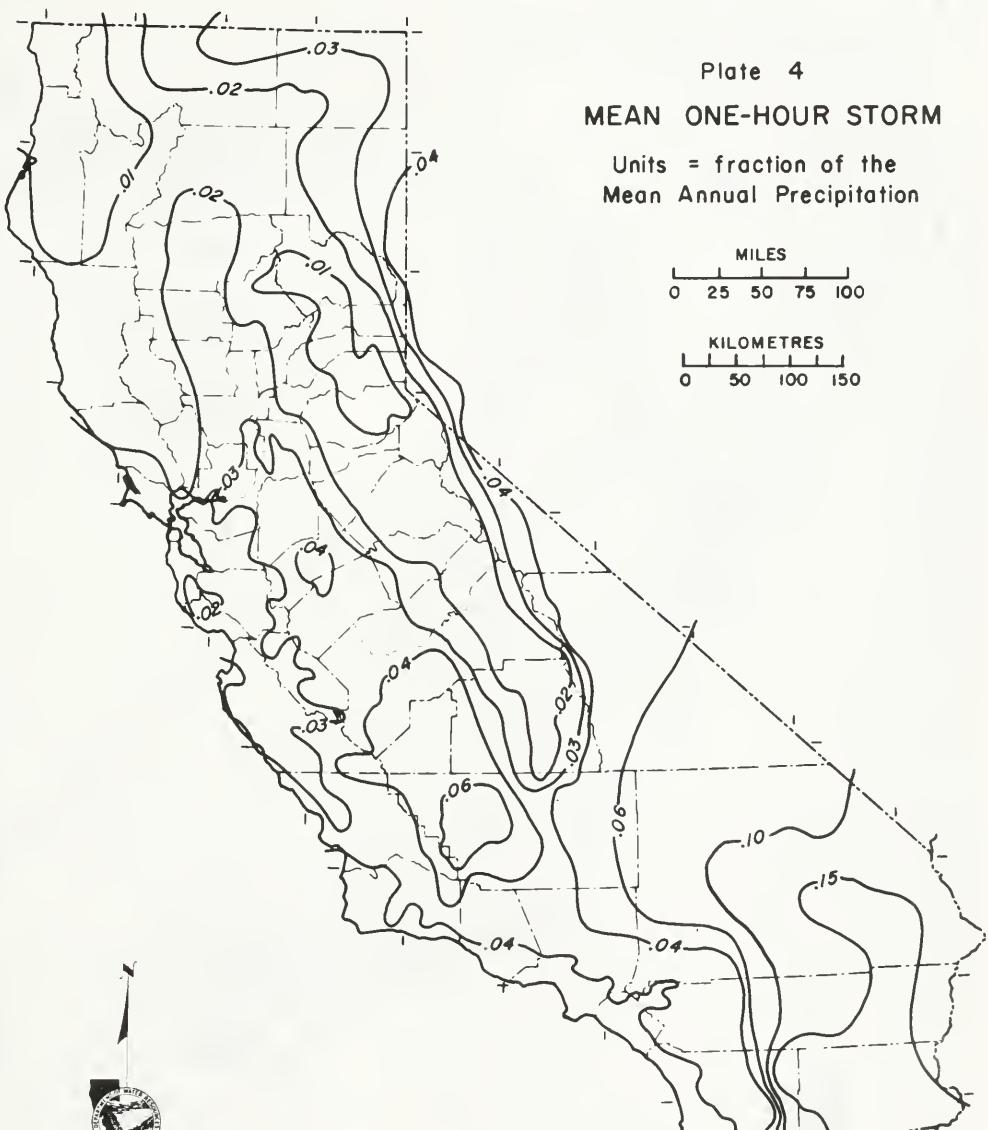


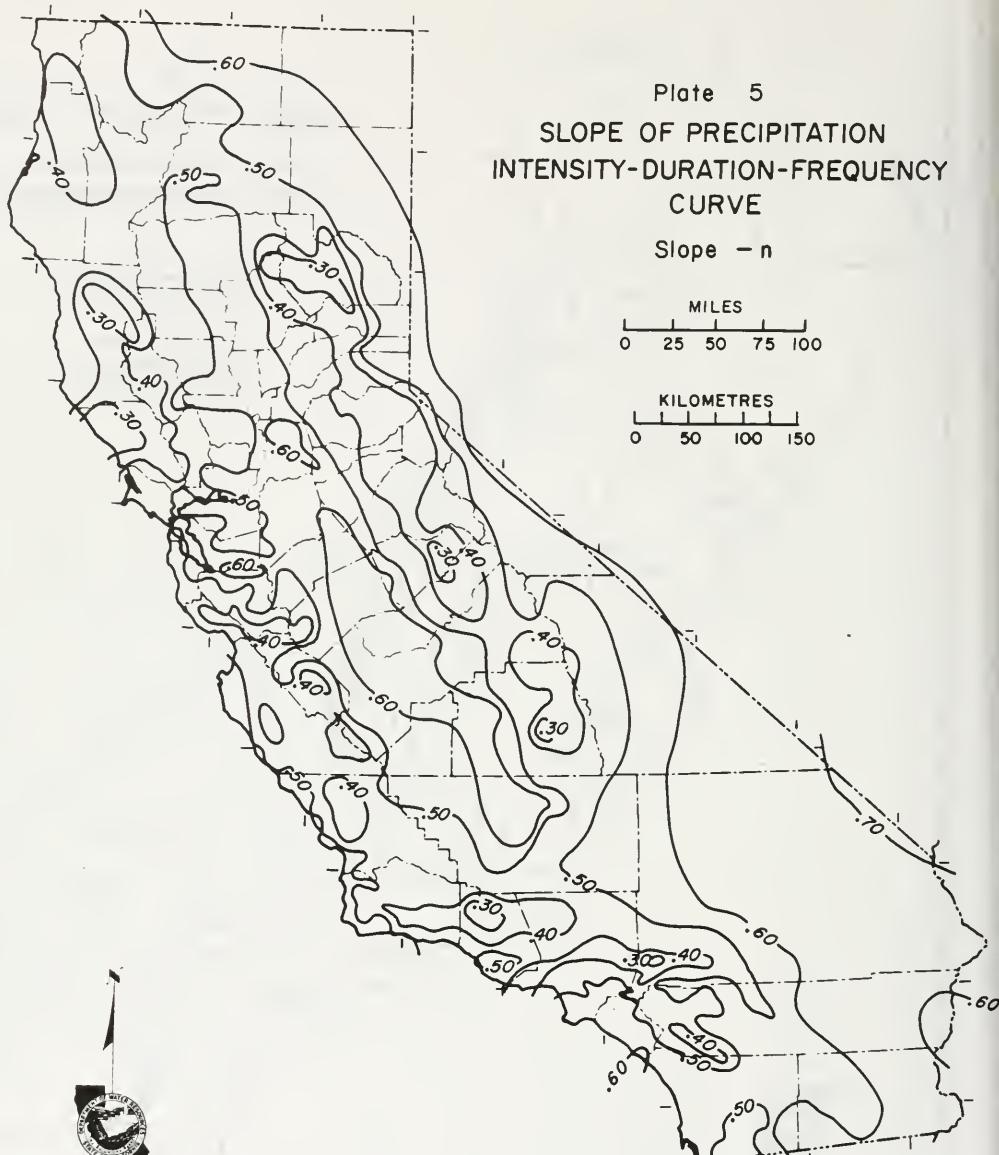
Plate 5

SLOPE OF PRECIPITATION
INTENSITY-DURATION-FREQUENCY
CURVE

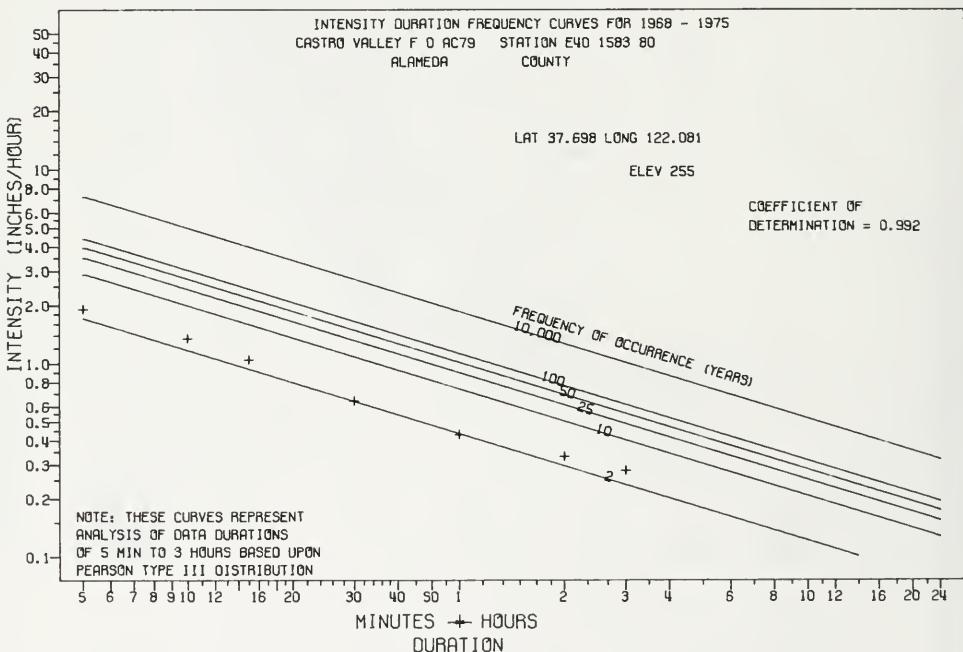
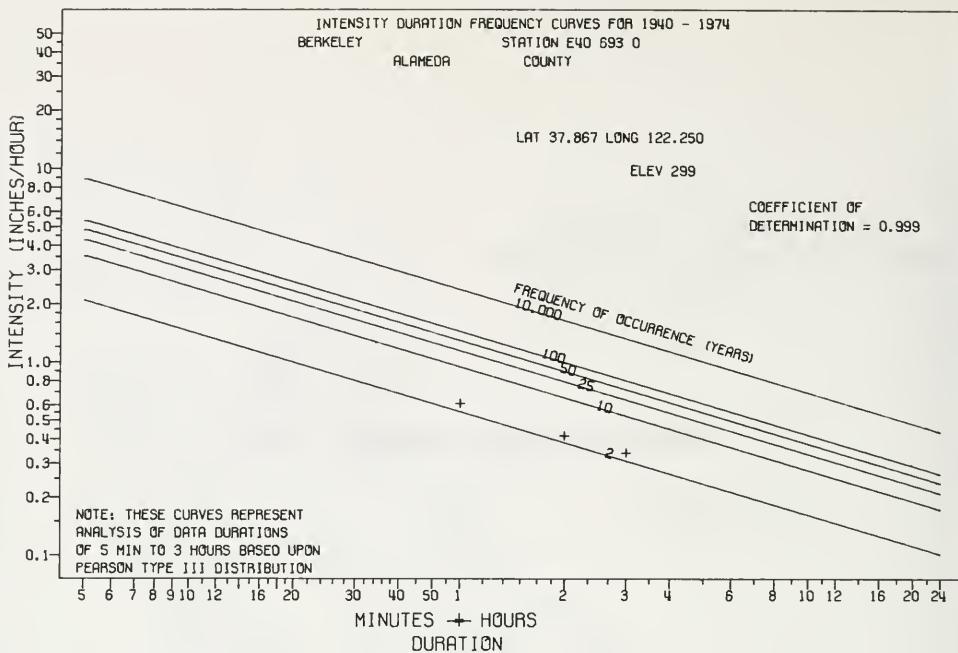
Slope - n

MILES
0 25 50 75 100

KILOMETRES
0 50 100 150



INTENSITY-DURATION-FREQUENCY CURVES

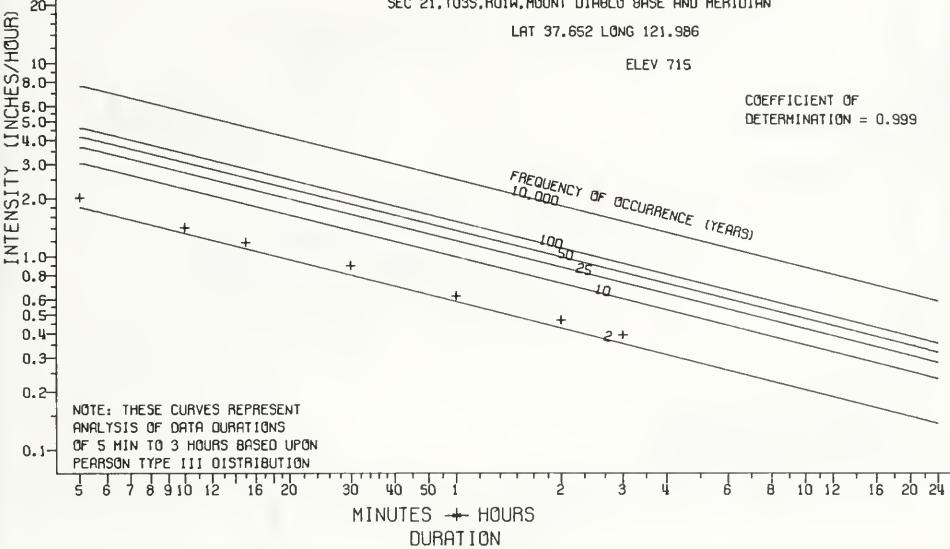


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 HAYWARD SESE STATION E40 3863 0
 ALAMEDA COUNTY

SEC 21, T05S, R01W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.652 LONG 121.986

ELEV 715

COEFFICIENT OF
 DETERMINATION = 0.999

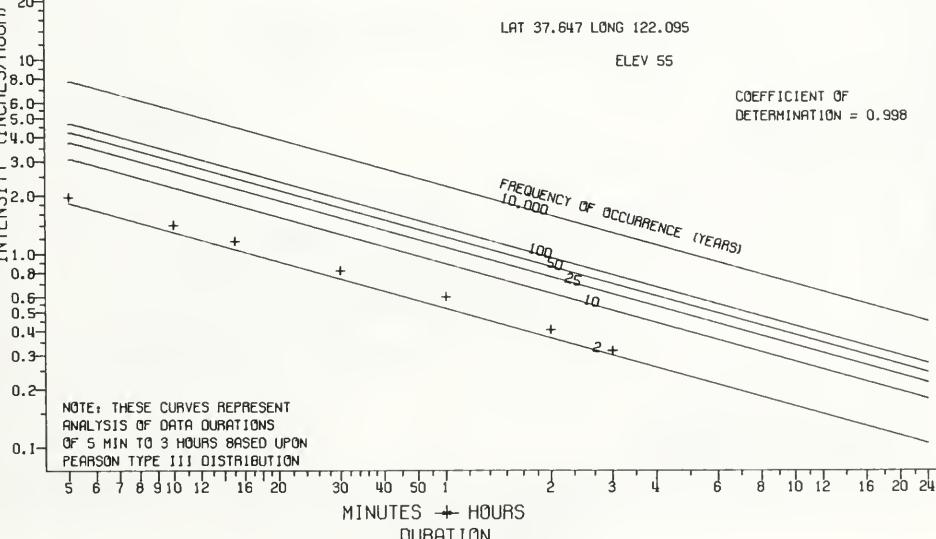


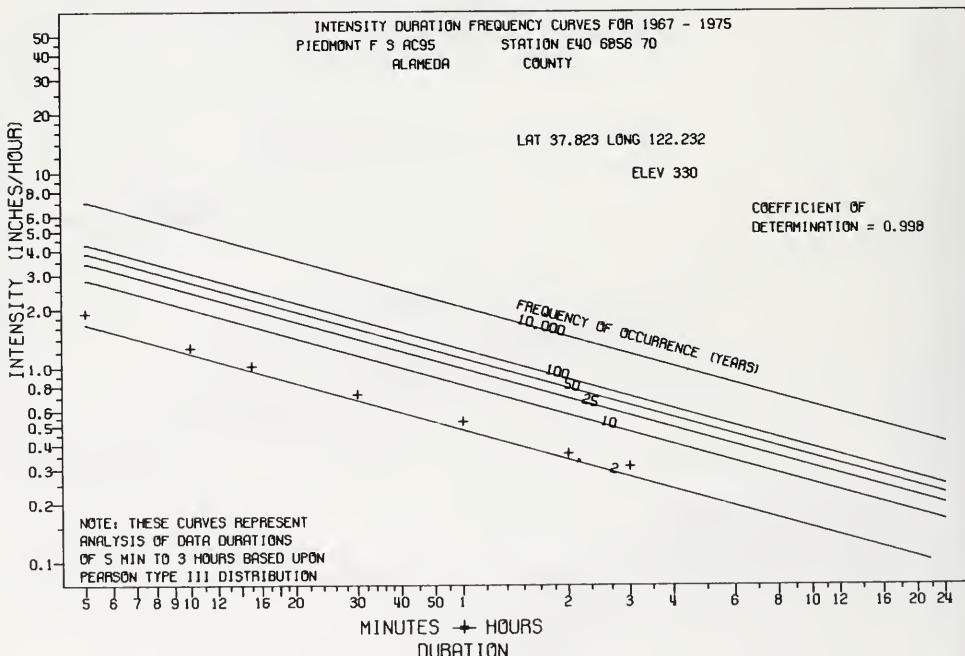
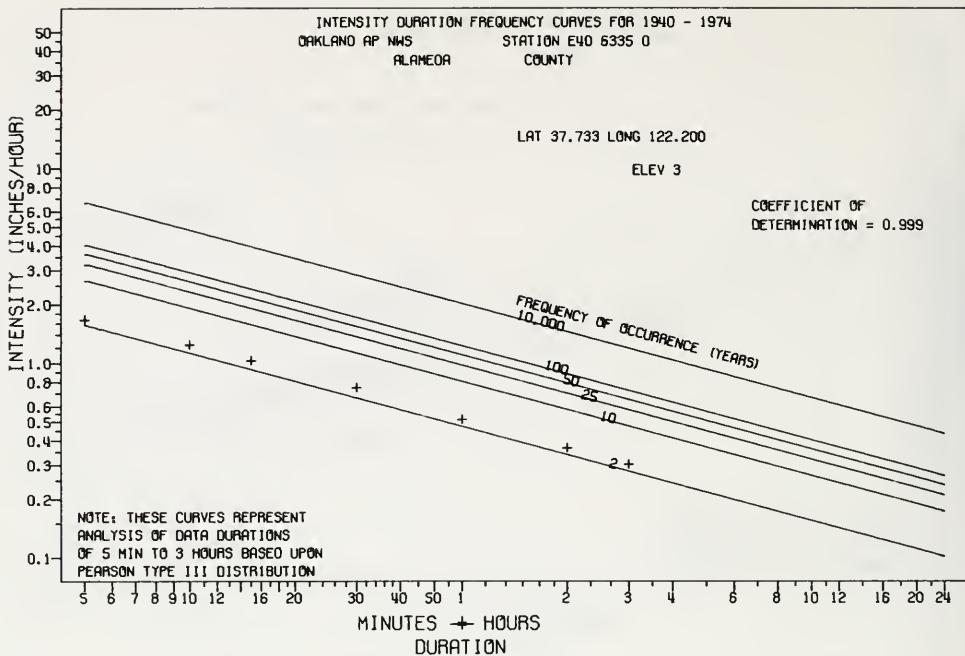
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 HAYWARD CORP YARD AC62 STATION E40 3863 2
 ALAMEDA COUNTY

LAT 37.647 LONG 122.095

ELEV 55

COEFFICIENT OF
 DETERMINATION = 0.998



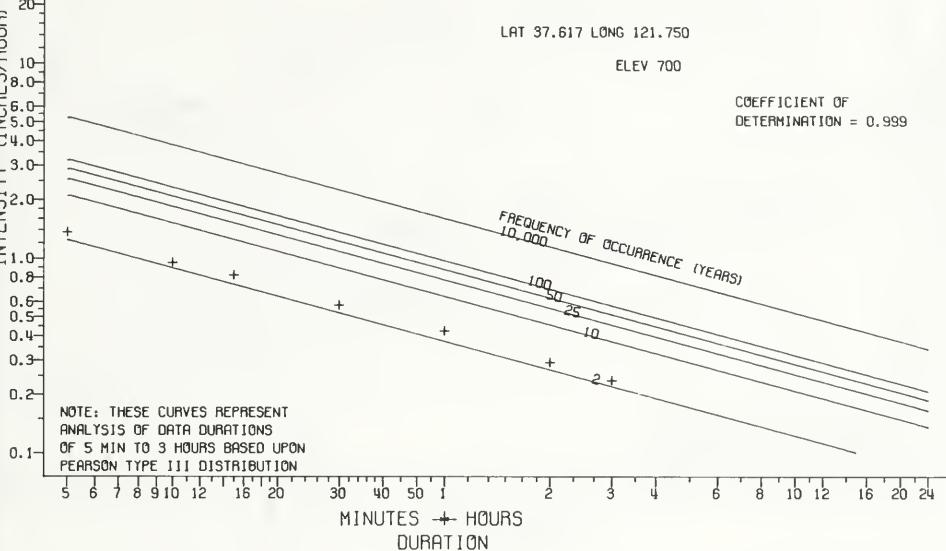


INTENSITY DURATION FREQUENCY CURVES FOR 1958 - 1975
 ARROYO DEL VALLE AC 16 STATION ESO 312 0
 ALAMEDA COUNTY

LAT 37.617 LONG 121.750

ELEV 700

COEFFICIENT OF
 DETERMINATION = 0.999



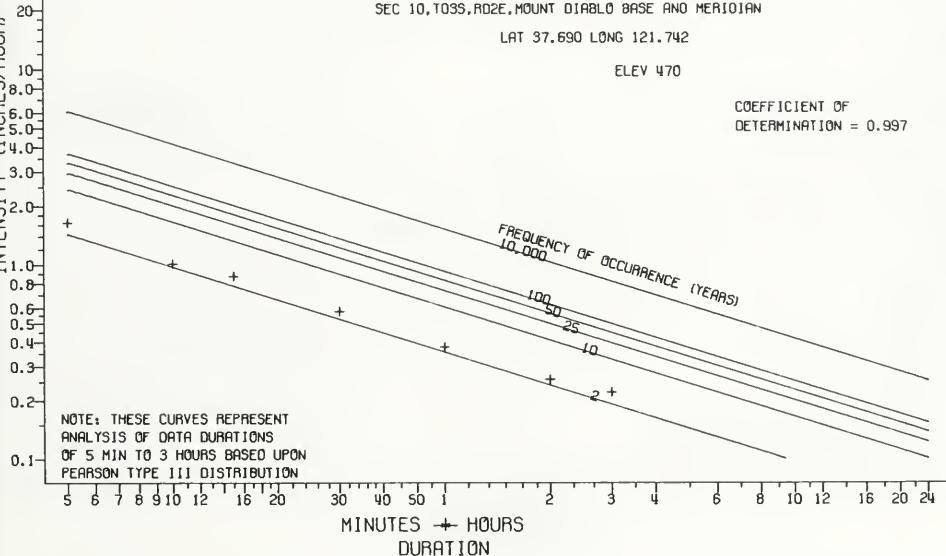
INTENSITY DURATION FREQUENCY CURVES FOR 1956 - 1968
 LIVERMORE 2E AC20 STATION ESO 4997 3
 ALAMEDA COUNTY

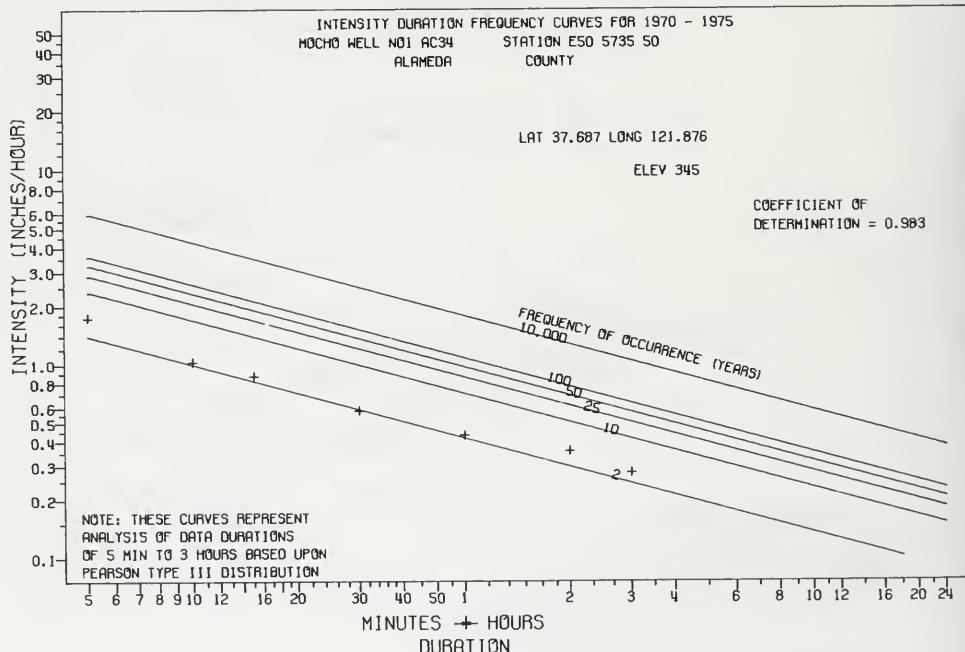
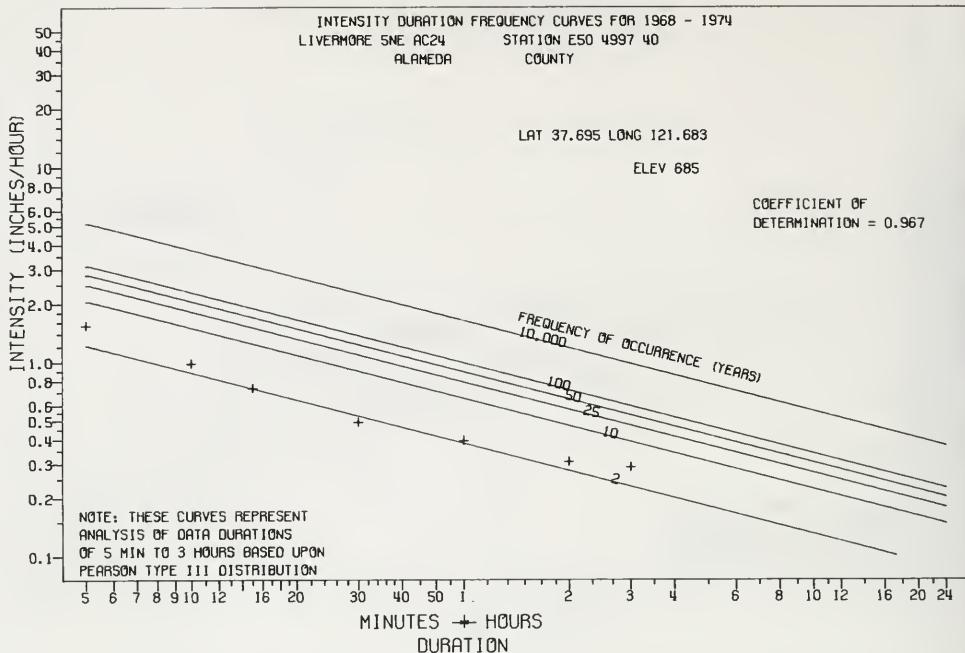
SEC 10, TQ35, RD2E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.690 LONG 121.742

ELEV 470

COEFFICIENT OF
 DETERMINATION = 0.997





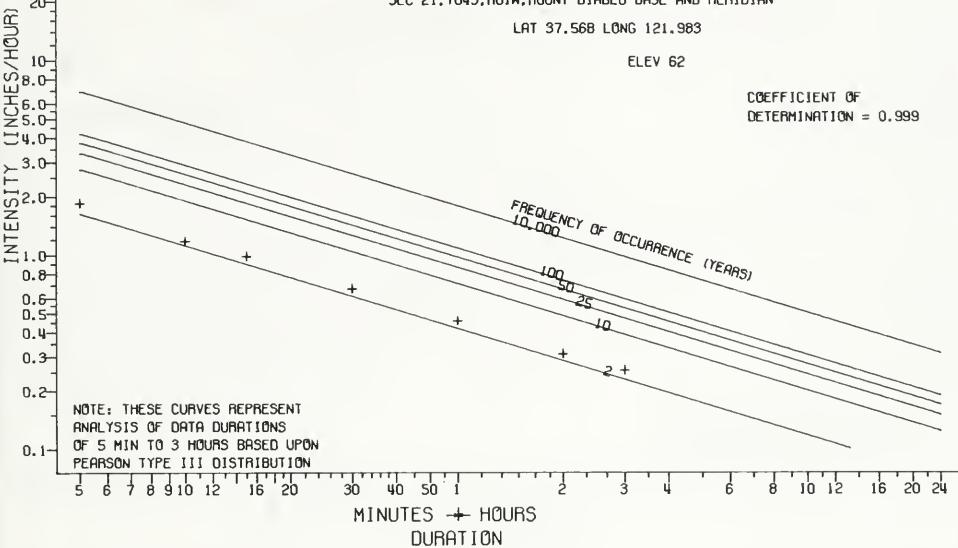
INTENSITY DURATION FREQUENCY CURVES FOR 1953 - 1974
 NILES 1SW ACSO STATION ESO 6199 2
 ALAMEDA COUNTY

SEC 21, T05S, R01W, MOUNT DIABLO BASE AND MERIDIAN

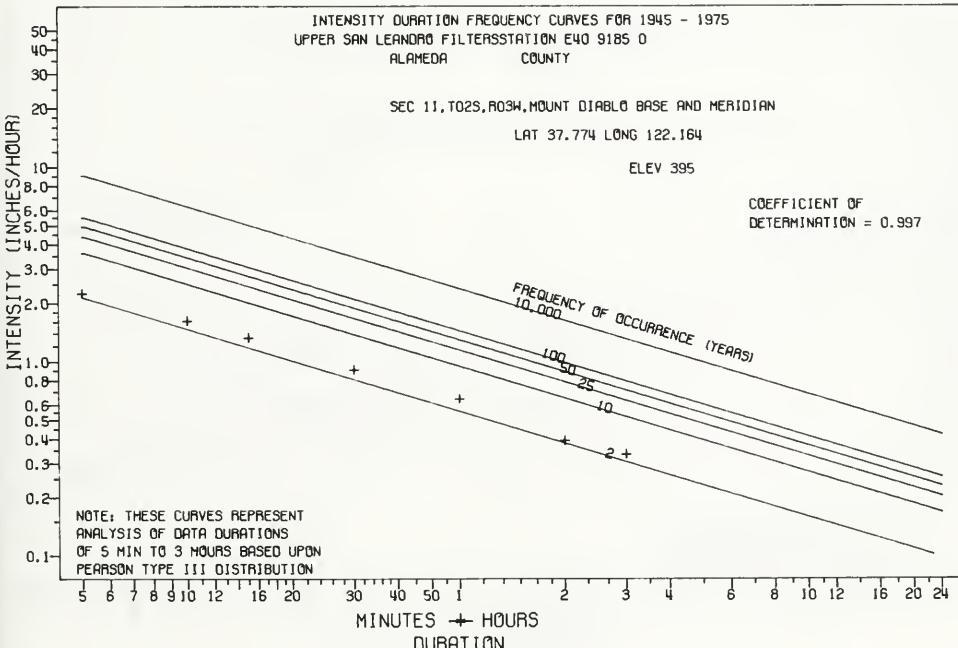
LAT 37.568 LONG 121.983

ELEV 62

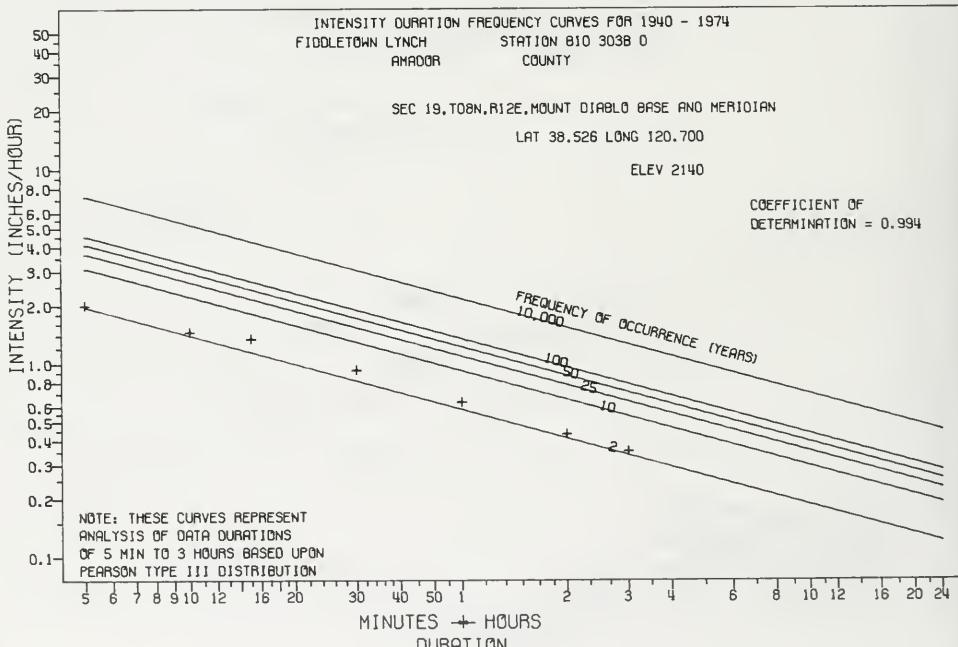
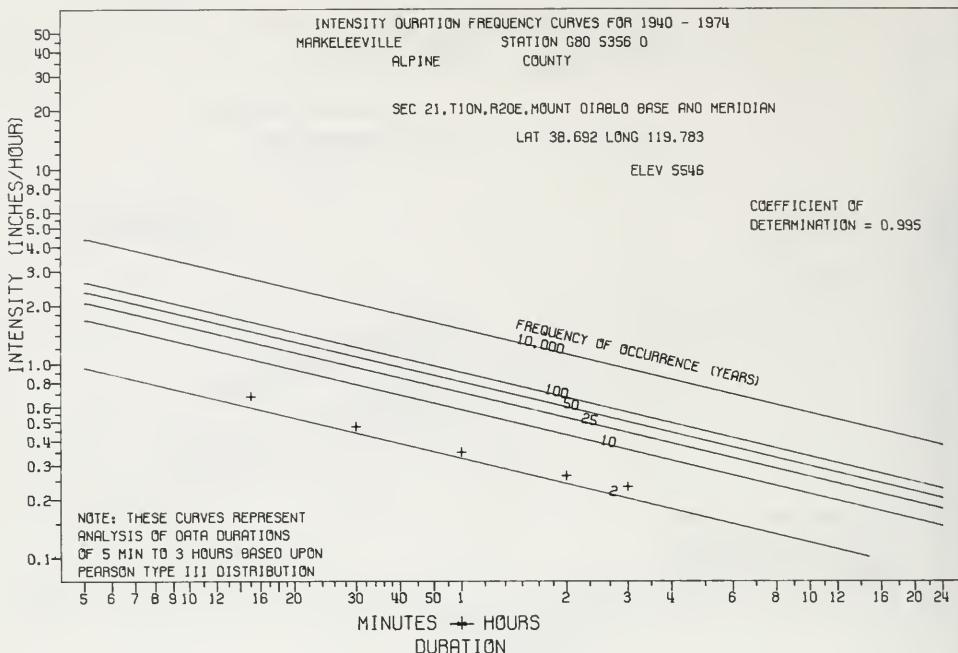
COEFFICIENT OF
 DETERMINATION = 0.999



NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON
 PEARSON TYPE III DISTRIBUTION



NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON
 PEARSON TYPE III DISTRIBUTION



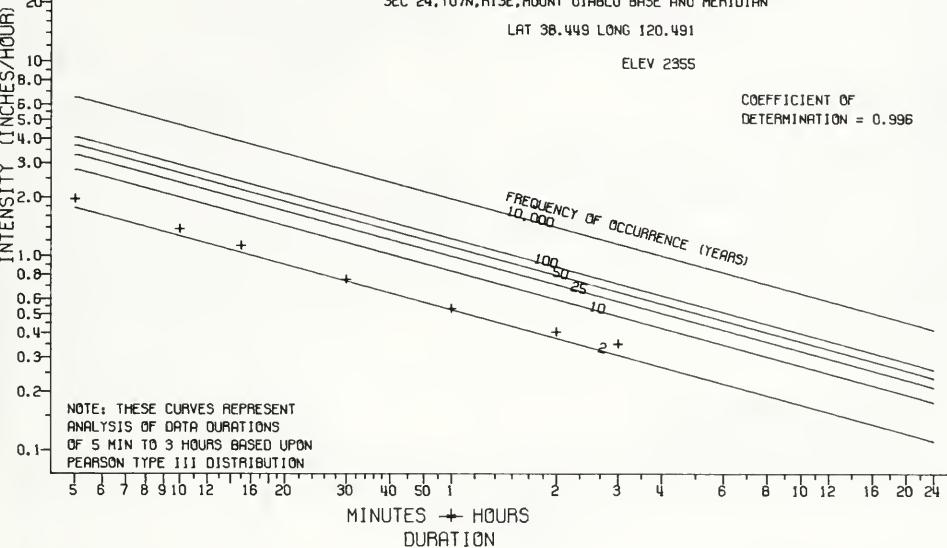
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 TIGER CREEK PH STATION 820 892B 0
 AMADOR COUNTY

SEC 24, T07N, R13E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.449 LONG 120.491

ELEV 2355

COEFFICIENT OF
 DETERMINATION = 0.996



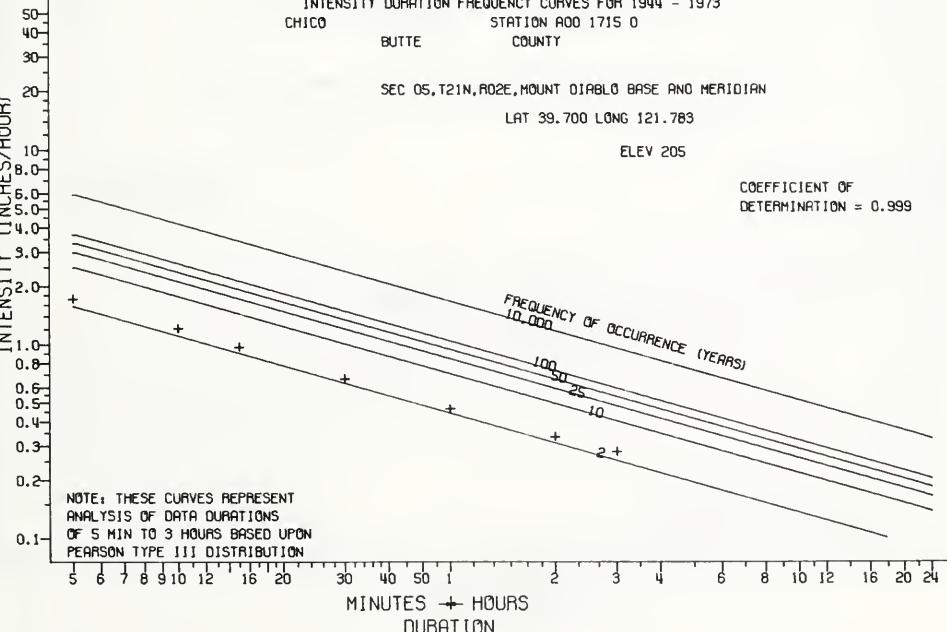
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1973
 CHICO STATION 800 1715 0
 BUTTE COUNTY

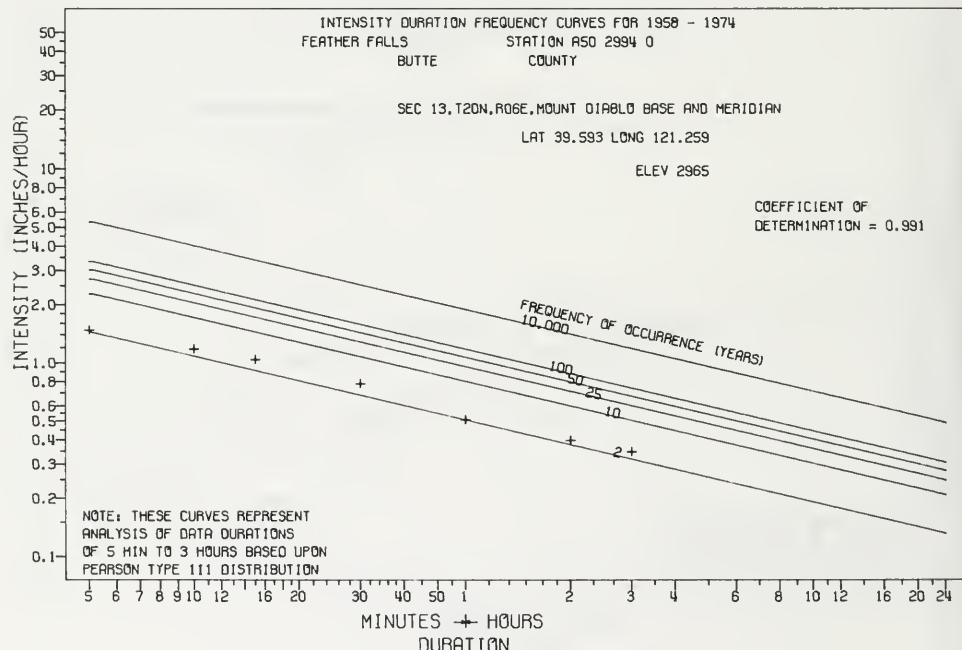
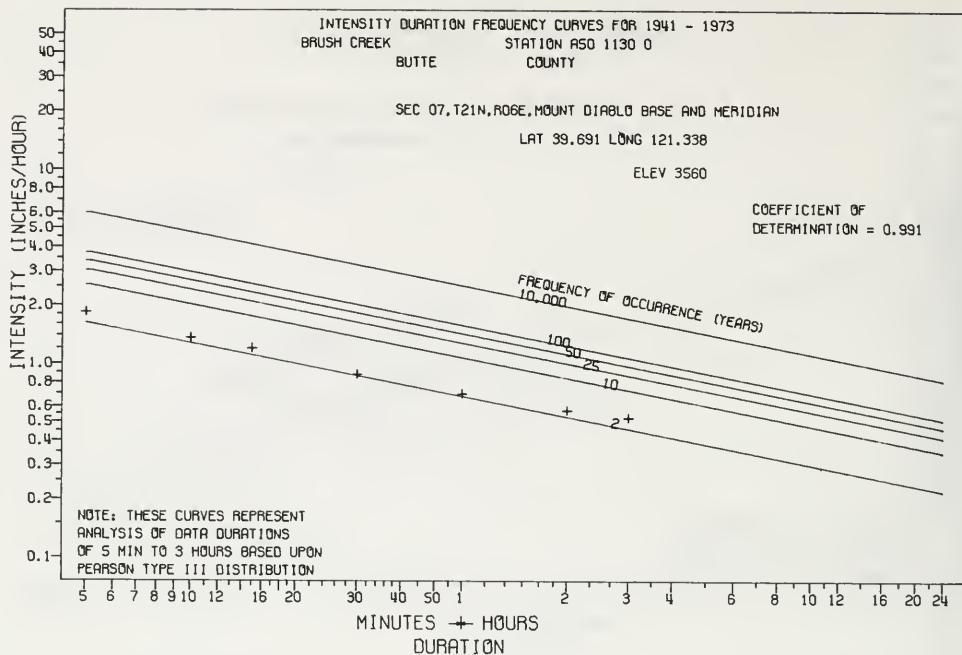
SEC 05, T21N, R02E, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.700 LONG 121.783

ELEV 205

COEFFICIENT OF
 DETERMINATION = 0.999



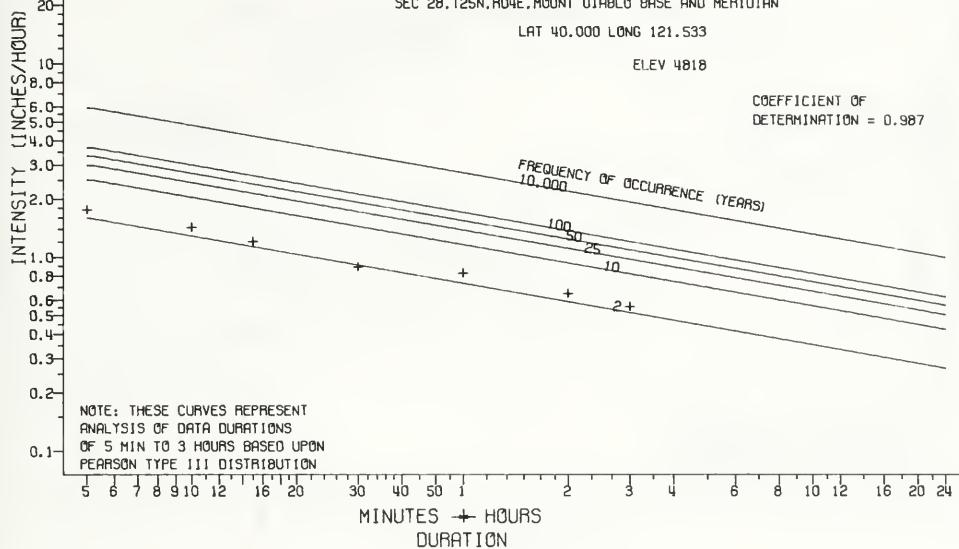


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1952
 INSKIP INN STATION ASO 4274 0
 BUTTE COUNTY

SEC 28, T25N, R04E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.000 LONG 121.533

ELEV 4818

COEFFICIENT OF
 DETERMINATION = 0.987

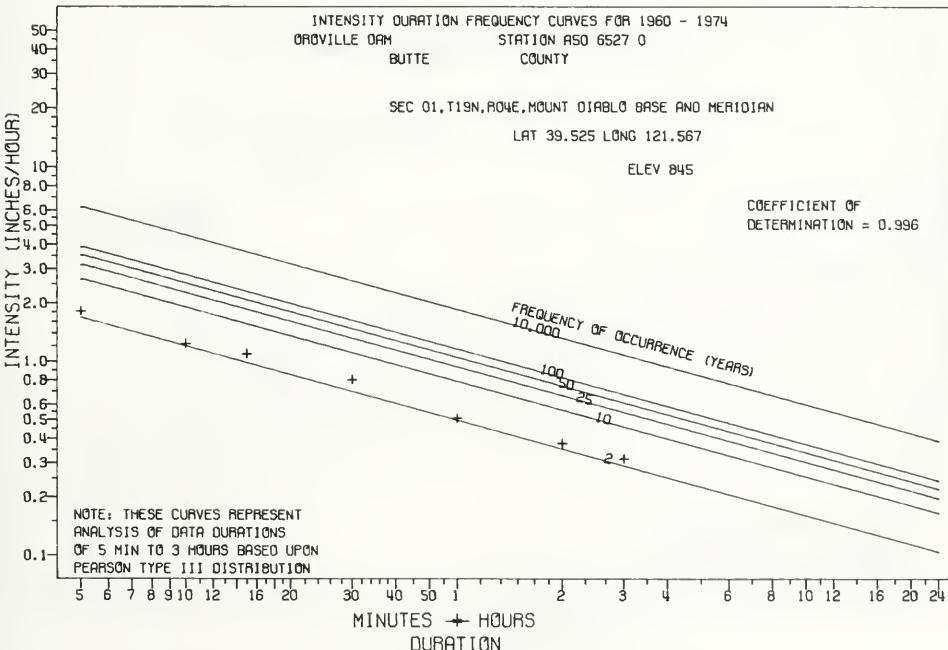


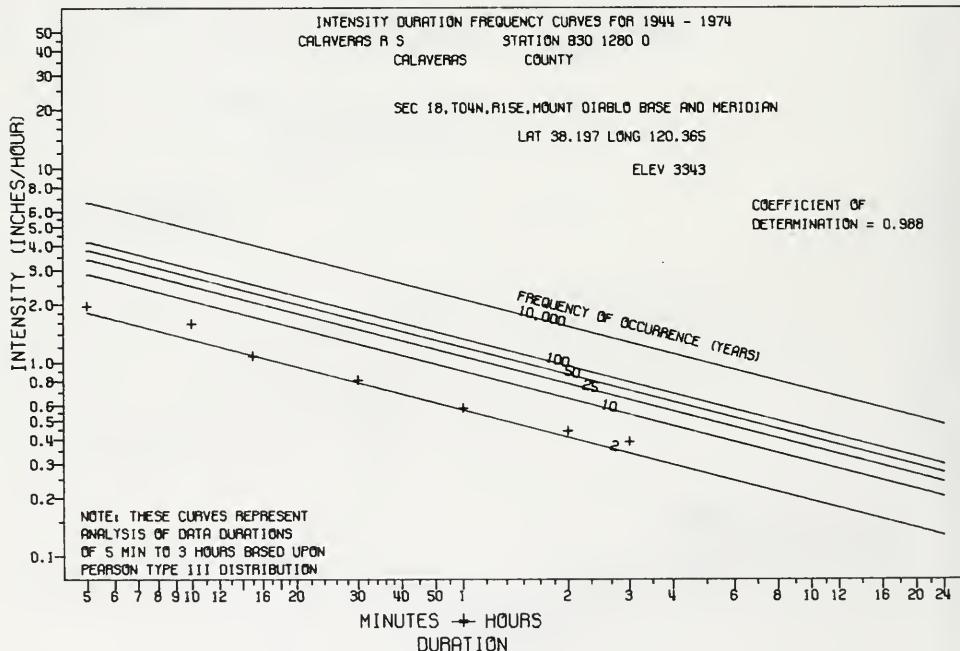
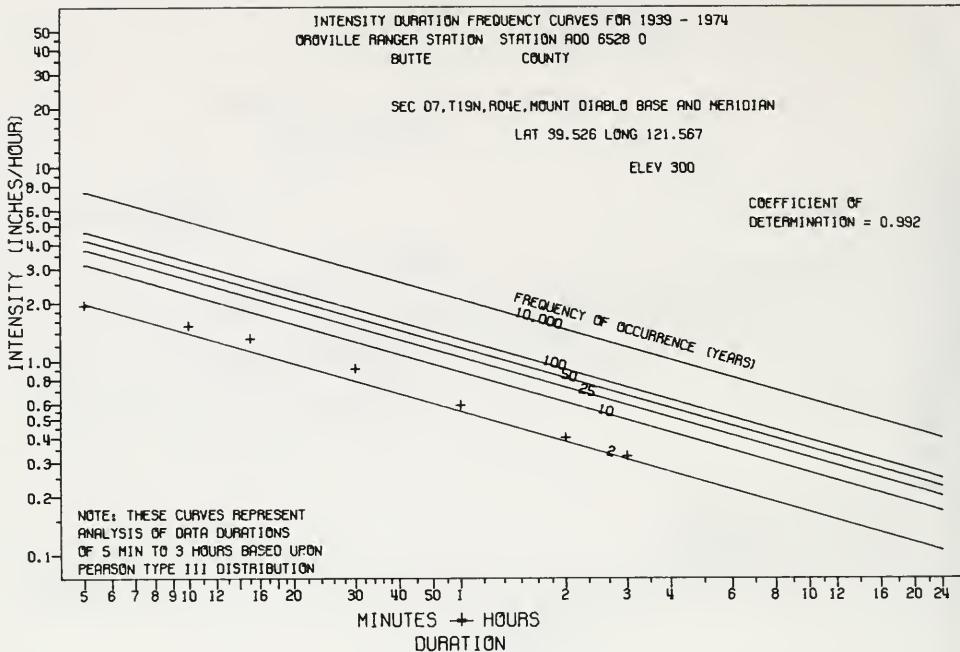
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 OROVILLE DAM STATION ASO 6527 0
 BUTTE COUNTY

SEC 01, T19N, R04E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.525 LONG 121.567

ELEV 845

COEFFICIENT OF
 DETERMINATION = 0.996





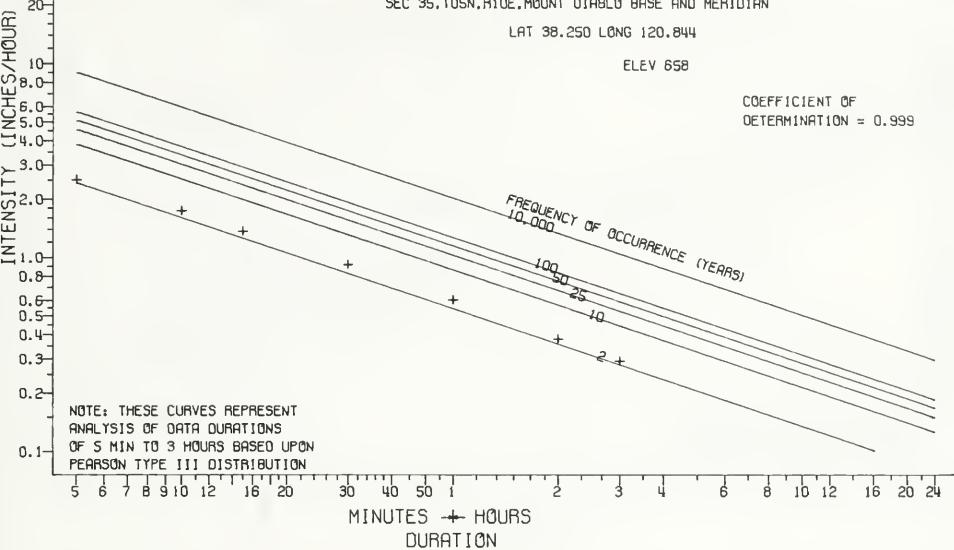
INTENSITY DURATION FREQUENCY CURVES FOR 1942 - 1974
 CAMP PARDEE STATION B20 1428 0
 CALAVERAS COUNTY

SEC 35, T05N, R10E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.250 LONG 120.844

ELEV 658

COEFFICIENT OF
 DETERMINATION = 0.999



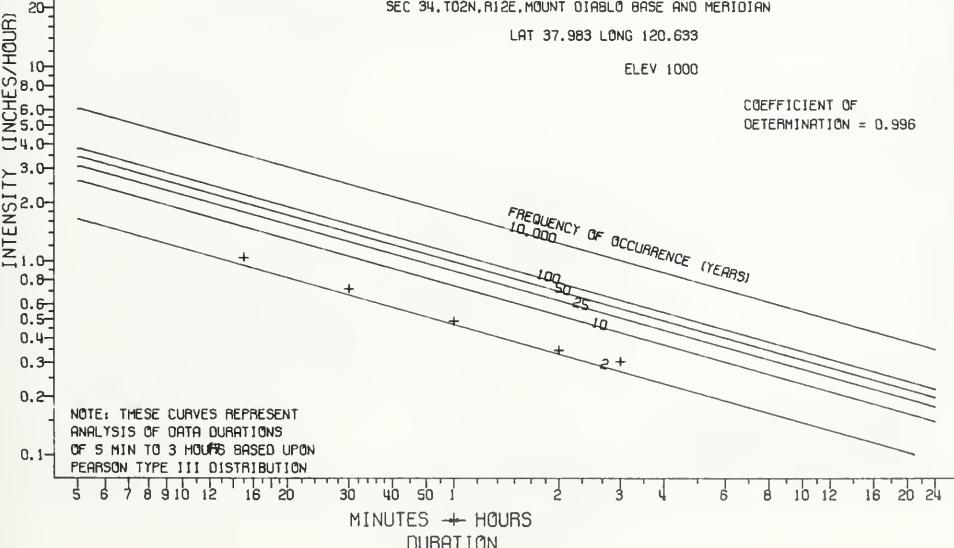
INTENSITY DURATION FREQUENCY CURVES FOR 1955 - 1974
 COPPERPOLIS STATION B30 2003 0
 CALAVERAS COUNTY

SEC 34, T02N, R12E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.983 LONG 120.633

ELEV 1000

COEFFICIENT OF
 DETERMINATION = 0.996

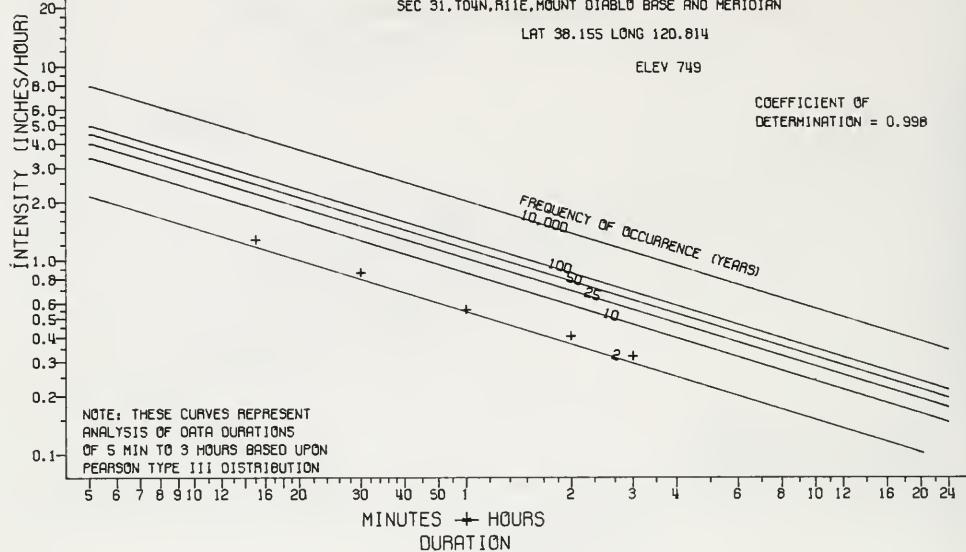


INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1974
 HOGAN DAM STATION B20 4018 1
 CALAVERAS COUNTY

SEC 31, T24N, R11E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 38.155 LONG 120.814

ELEV 749

COEFFICIENT OF
 DETERMINATION = 0.998

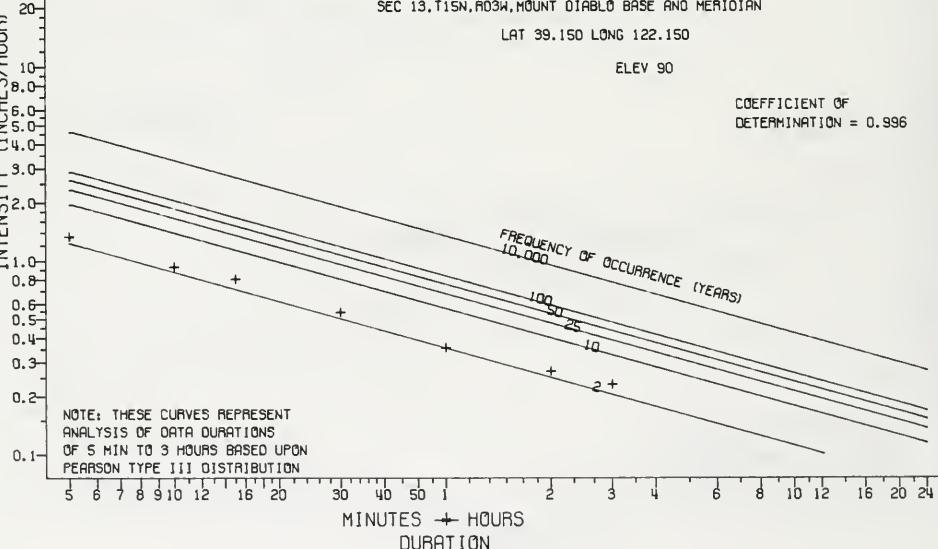


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 WILLIAMS STATION A00 9677 0
 COLUSA COUNTY

SEC 13, T15N, R03W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.150 LONG 122.150

ELEV 90

COEFFICIENT OF
 DETERMINATION = 0.996



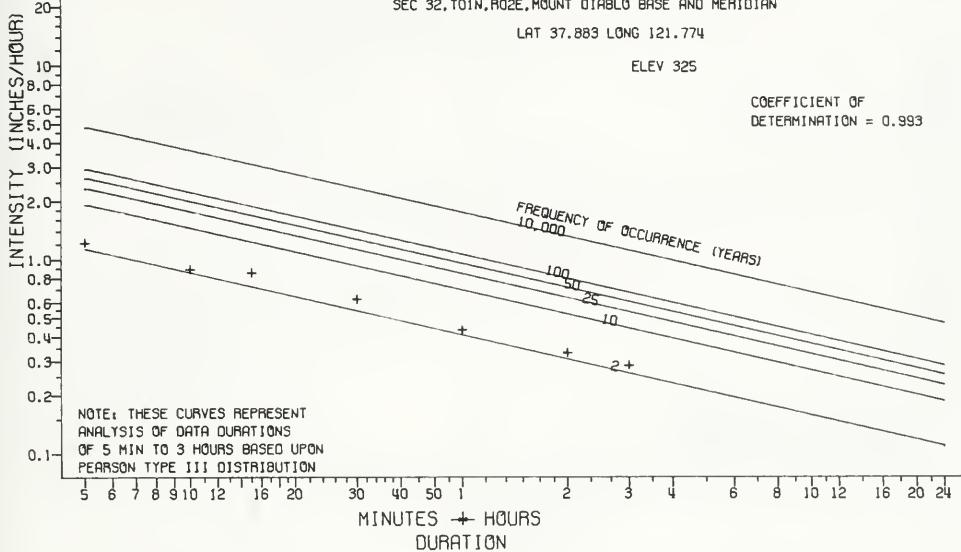
INTENSITY DURATION FREQUENCY CURVES FOR 1950 - 1974
BRENTWOOD 6 SW RANGE STATION E80 1060 0
CONTRA COSTA COUNTY

SEC 32, T01N, R02E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.883 LONG 121.774

ELEV 325

COEFFICIENT OF
DETERMINATION = 0.993

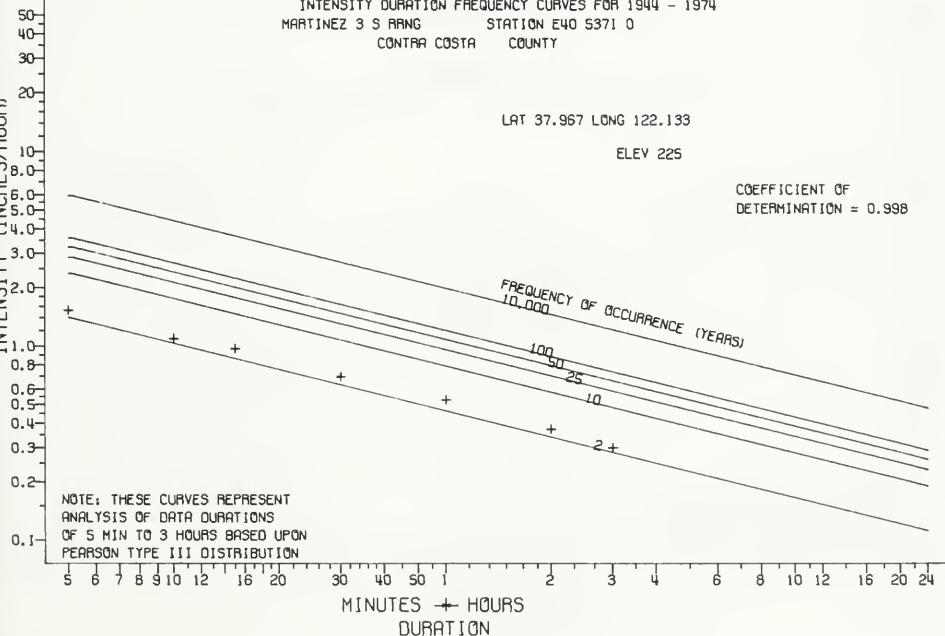


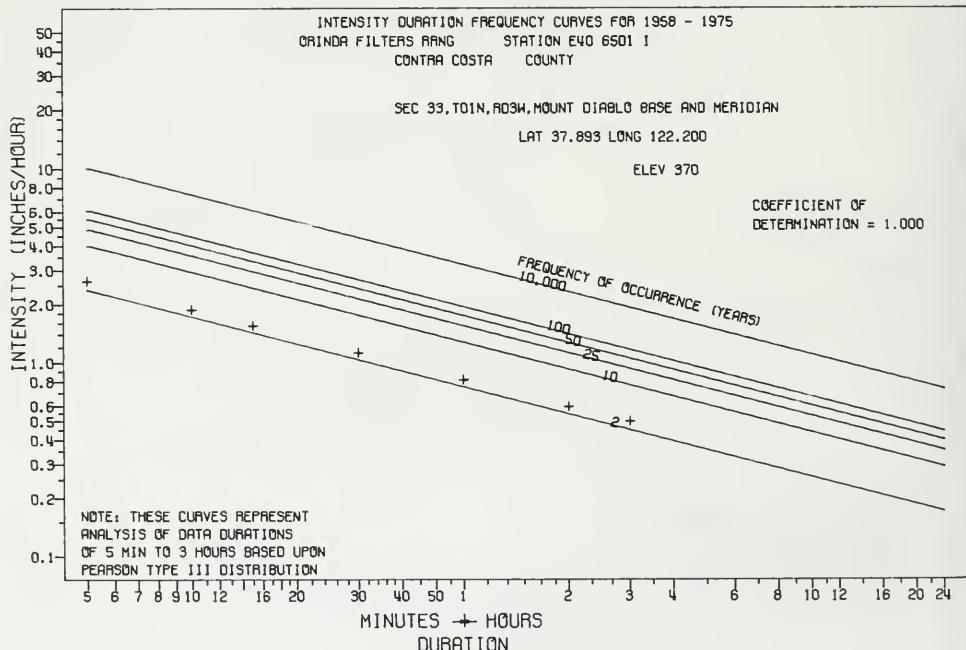
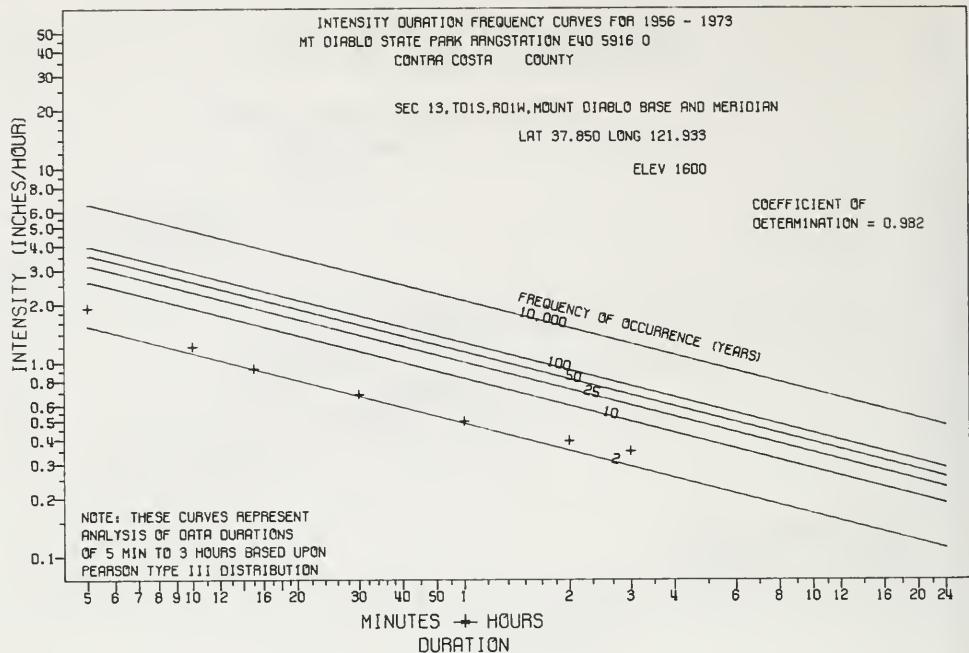
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
MARTINEZ 3 S RANGE STATION E40 5371 0
CONTRA COSTA COUNTY

LAT 37.967 LONG 122.133

ELEV 225

COEFFICIENT OF
DETERMINATION = 0.998



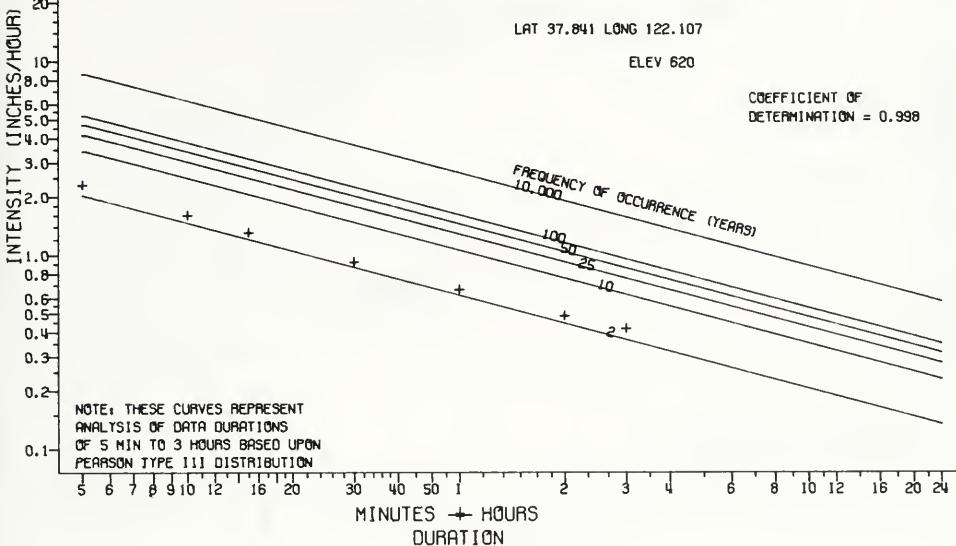


INTENSITY DURATION FREQUENCY CURVES FOR 1955 - 1975
 ST MARYS COLLEGE RANG STATION E40 7661 0
 CONTRA COSTA COUNTY

LAT 37.841 LONG 122.107

ELEV 620

COEFFICIENT OF
 DETERMINATION = 0.998



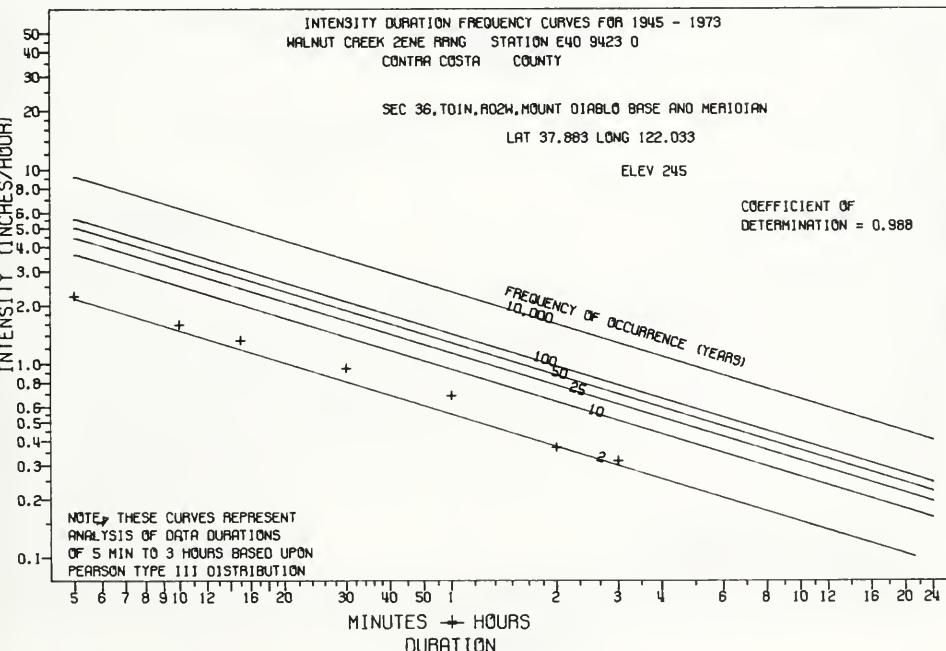
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1973
 WALNUT CREEK ZONE RANG STATION E40 9423 0
 CONTRA COSTA COUNTY

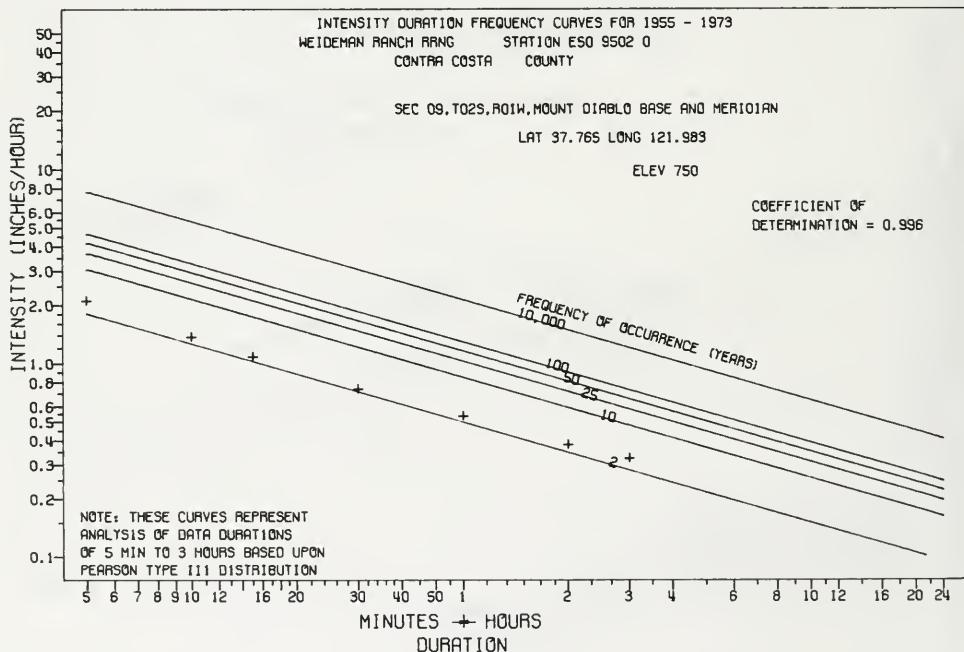
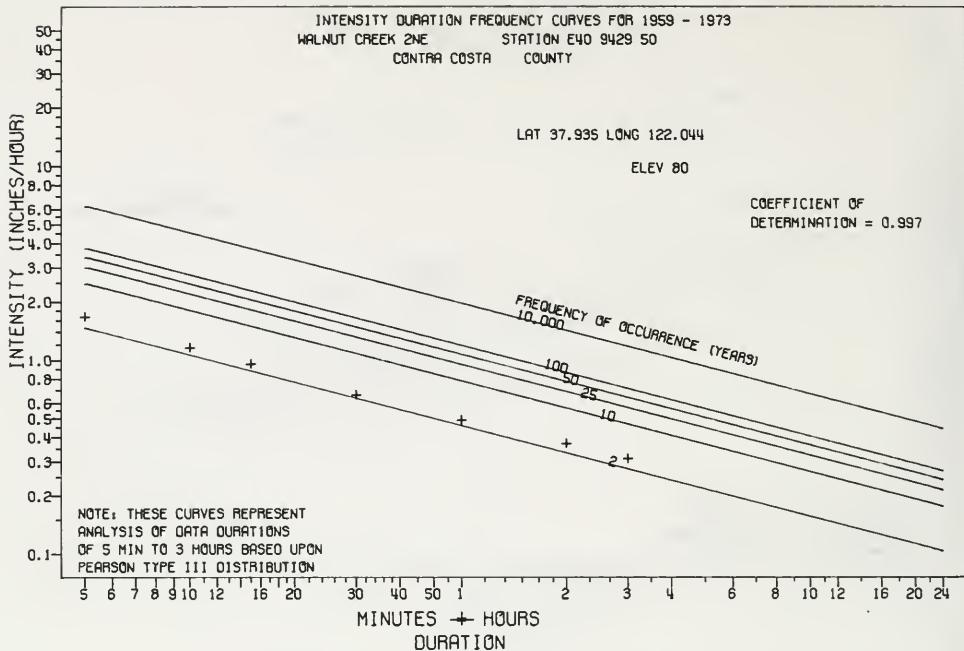
SEC 36, T01N, R02W, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.883 LONG 122.033

ELEV 245

COEFFICIENT OF
 DETERMINATION = 0.988



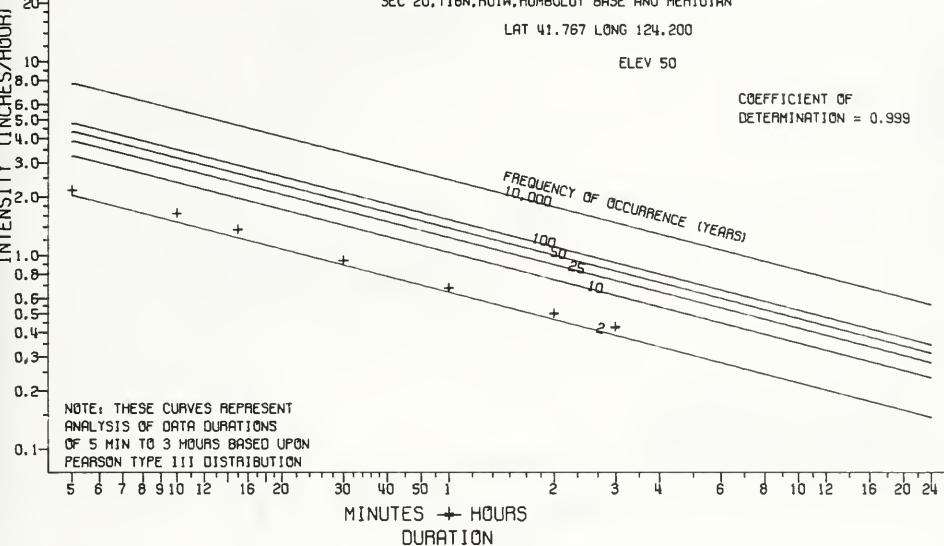


INTENSITY DURATION FREQUENCY CURVES FOR 1942 - 1974
 CRESCENT CITY MTC STA STATION F00 2150 0
 DEL NORTE COUNTY

SEC 20, T16N, R01W, HUMBOLDT BASE AND MERIDIAN
 LAT 41.767 LONG 124.200

ELEV 50

COEFFICIENT OF
 DETERMINATION = 0.999

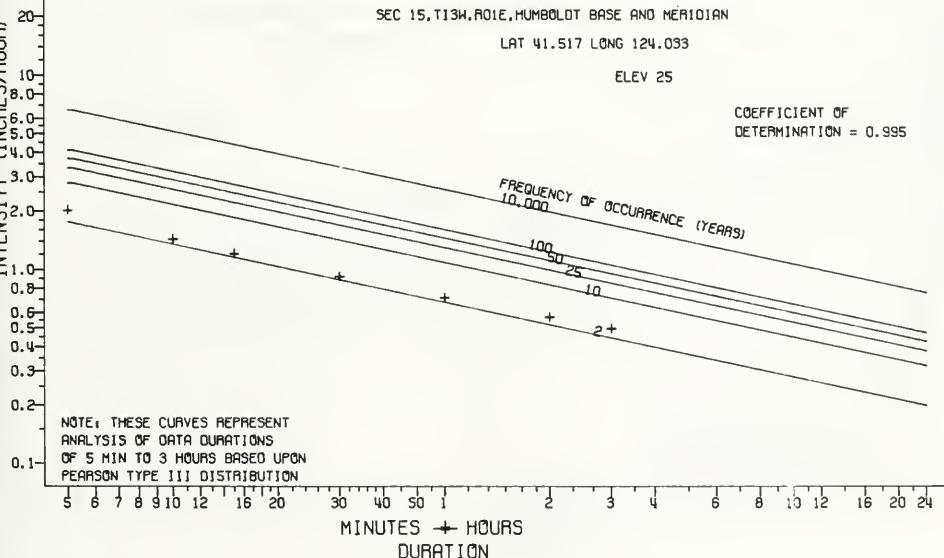


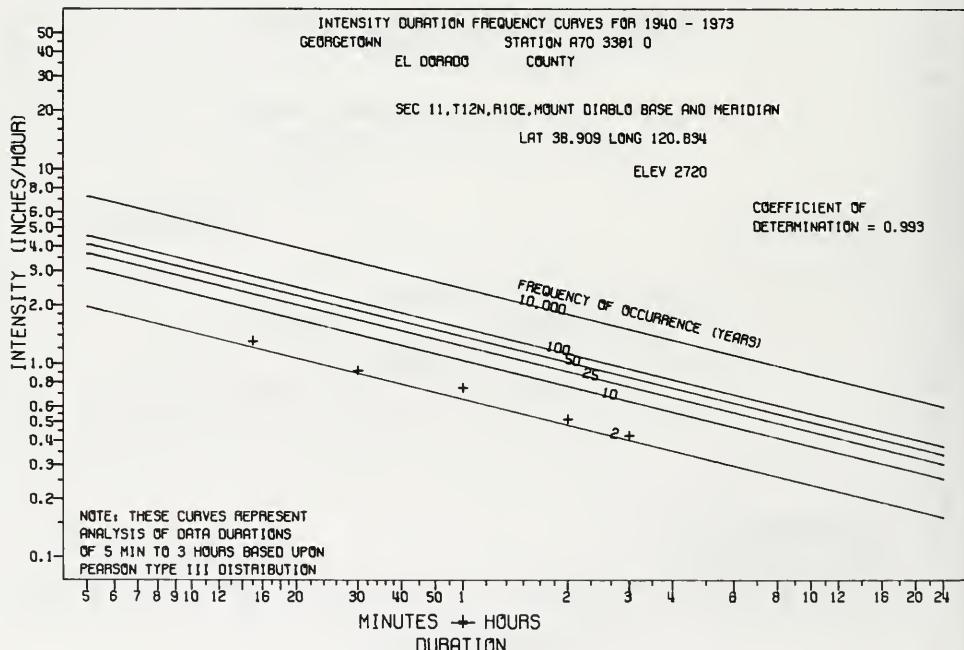
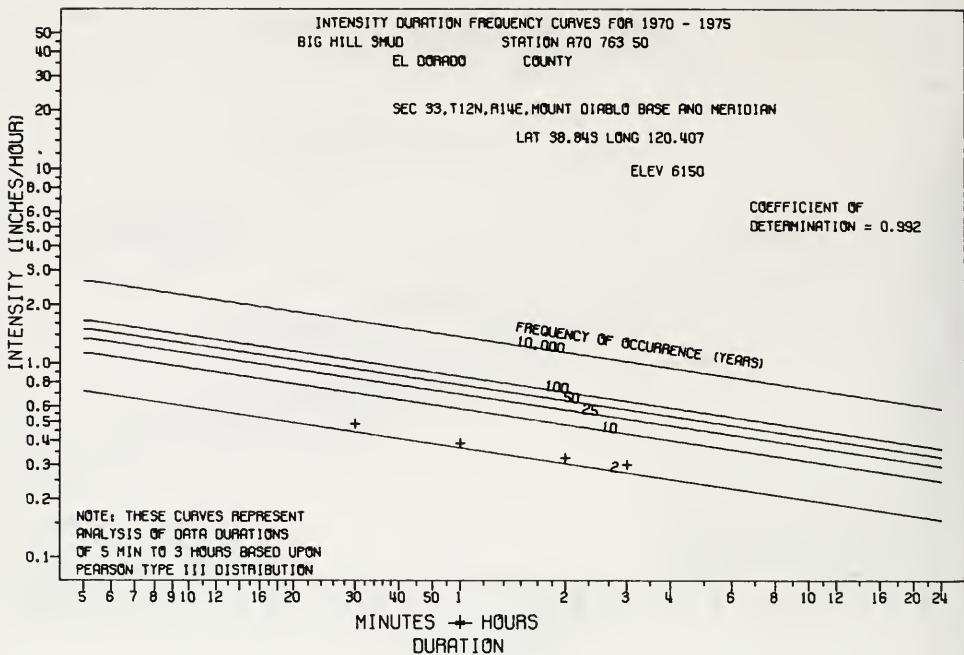
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 KLAMATH STATION F30 4577 0
 DEL NORTE COUNTY

SEC 15, T13W, R01E, HUMBOLDT BASE AND MERIDIAN
 LAT 41.517 LONG 124.033

ELEV 25

COEFFICIENT OF
 DETERMINATION = 0.995



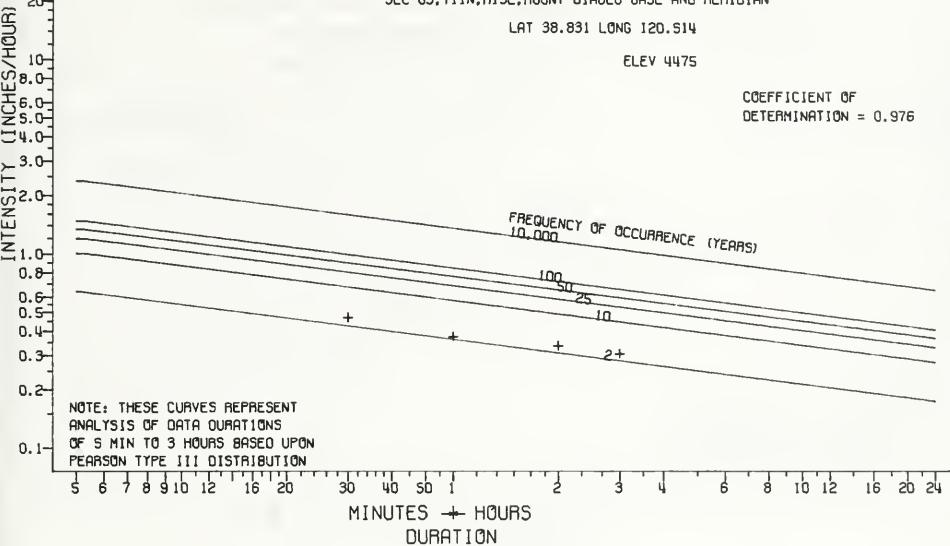


INTENSITY DURATION FREQUENCY CURVES FOR 1970 - 1975
JAY BIRD SPRINGS STATION A70 4345 30
EL DORADO COUNTY

SEC 03, T11N, R13E, MOUNT DIABLO BASE AND MERIDIAN
LAT 38.831 LONG 120.514

ELEV 4475

COEFFICIENT OF
DETERMINATION = 0.976

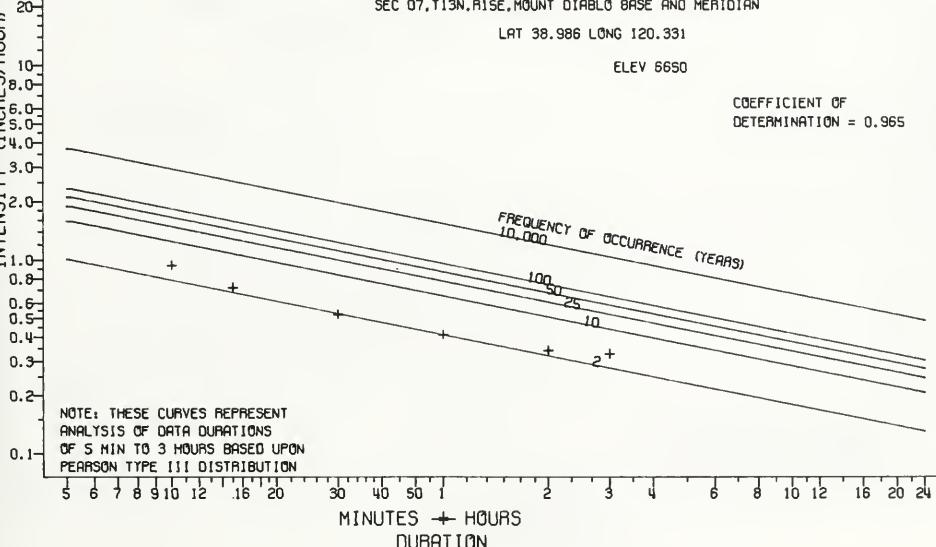


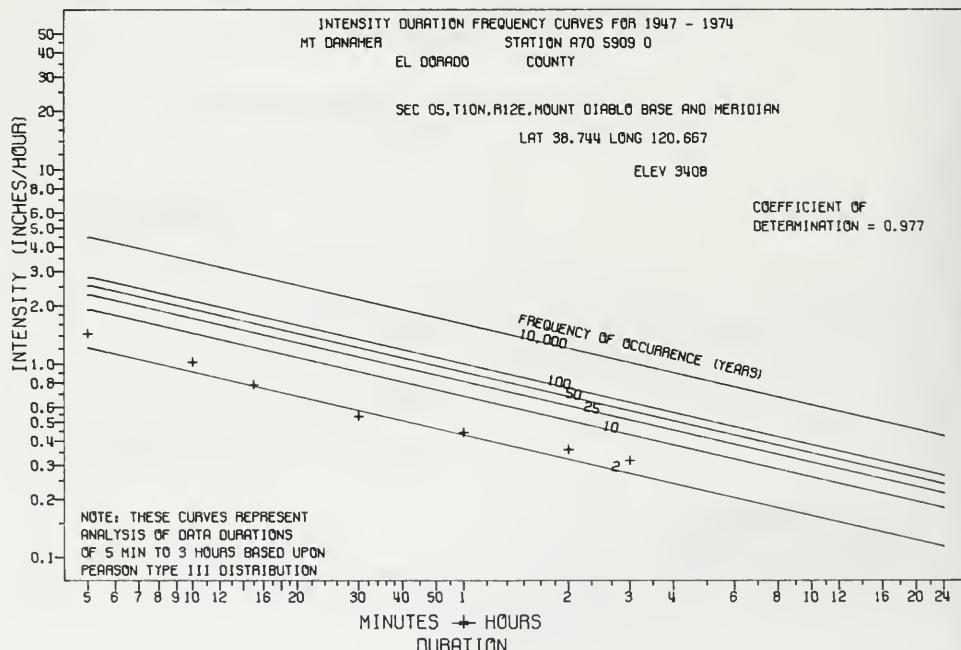
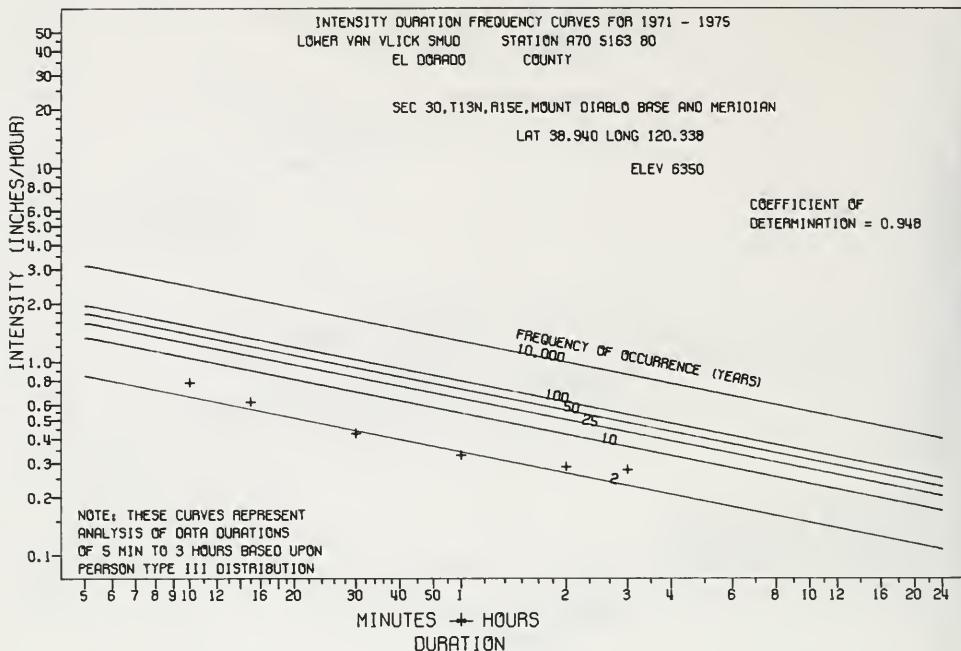
INTENSITY DURATION FREQUENCY CURVES FOR 1970 - 1975
LOON LAKE SMUD STATION A70 5097 80
EL DORADO COUNTY

SEC 07, T13N, R13E, MOUNT DIABLO BASE AND MERIDIAN
LAT 38.986 LONG 120.331

ELEV 6650

COEFFICIENT OF
DETERMINATION = 0.965





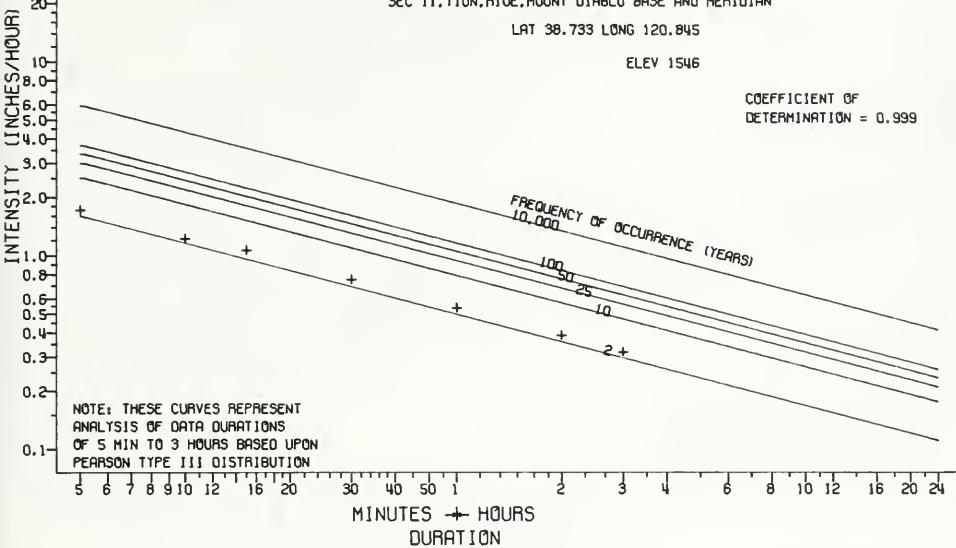
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
PLACERVILLE DSP PL STATION R70 6964 0
EL DORADO COUNTY

SEC 11, T10N, R10E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.733 LONG 120.845

ELEV 1546

COEFFICIENT OF
DETERMINATION = 0.999



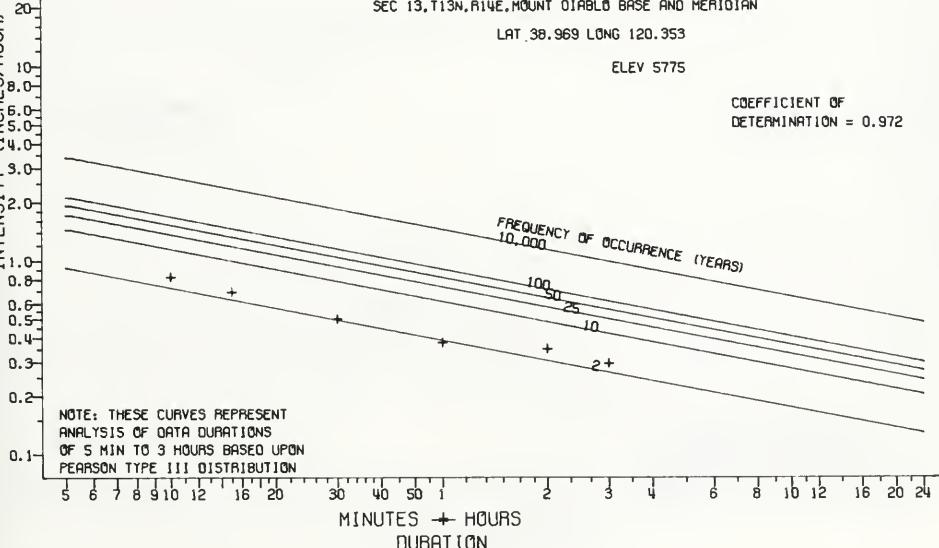
INTENSITY DURATION FREQUENCY CURVES FOR 1970 - 1975
SCHLEIN R S SMUD STATION R70 8038 25
EL DORADO COUNTY

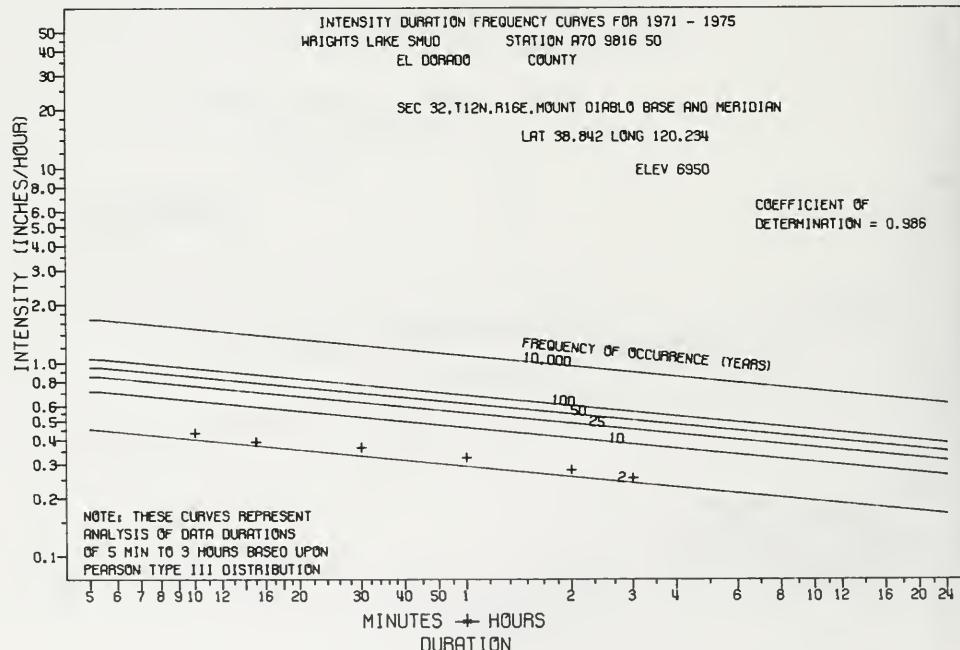
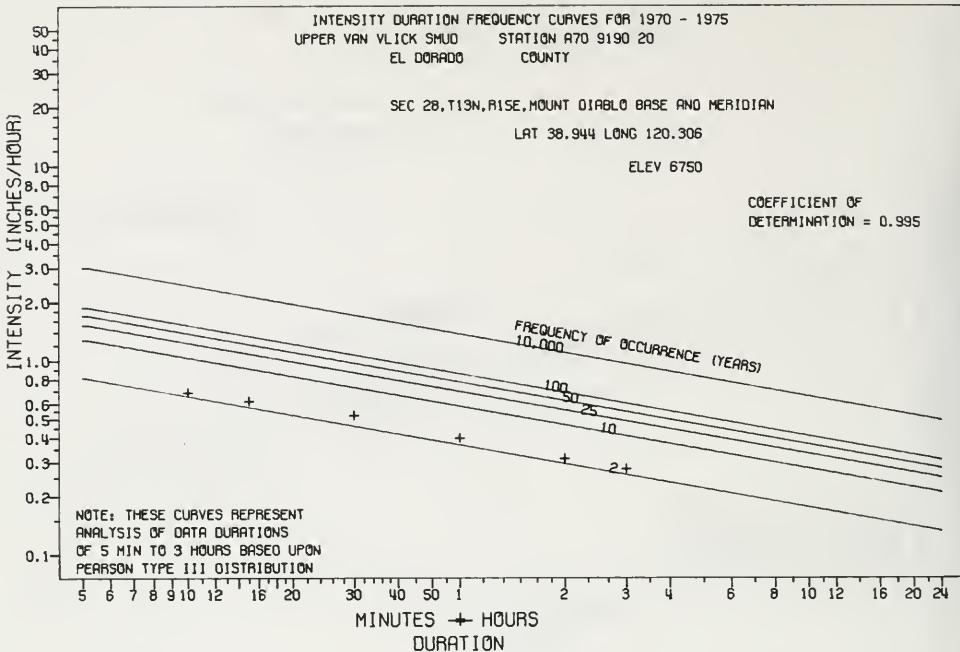
SEC 13, T13N, R14E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.969 LONG 120.353

ELEV 5775

COEFFICIENT OF
DETERMINATION = 0.972

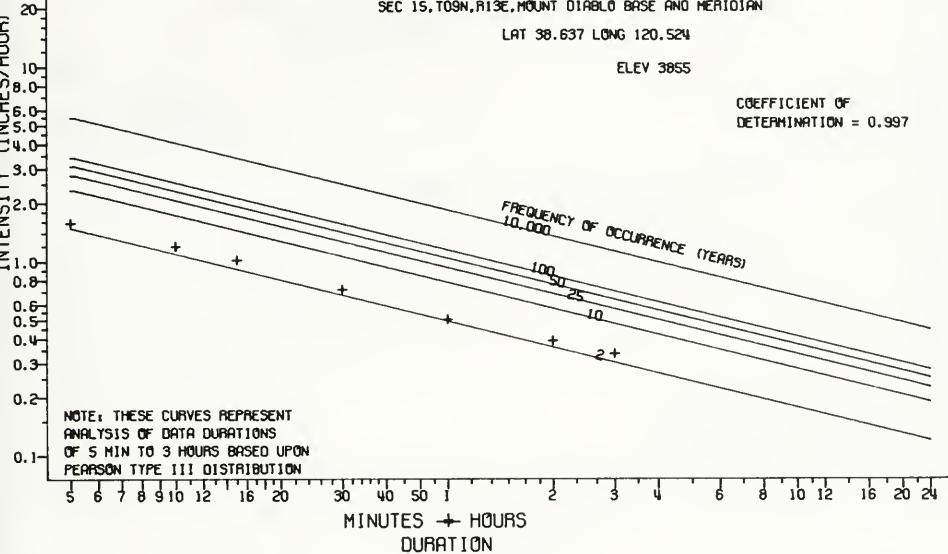




INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1964
 GRIZZLEY FLAT STATION B10 3649 0
 EL DORADO COUNTY

SEC 15, T15N, R13E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 38.637 LONG 120.524
 ELEV 3855

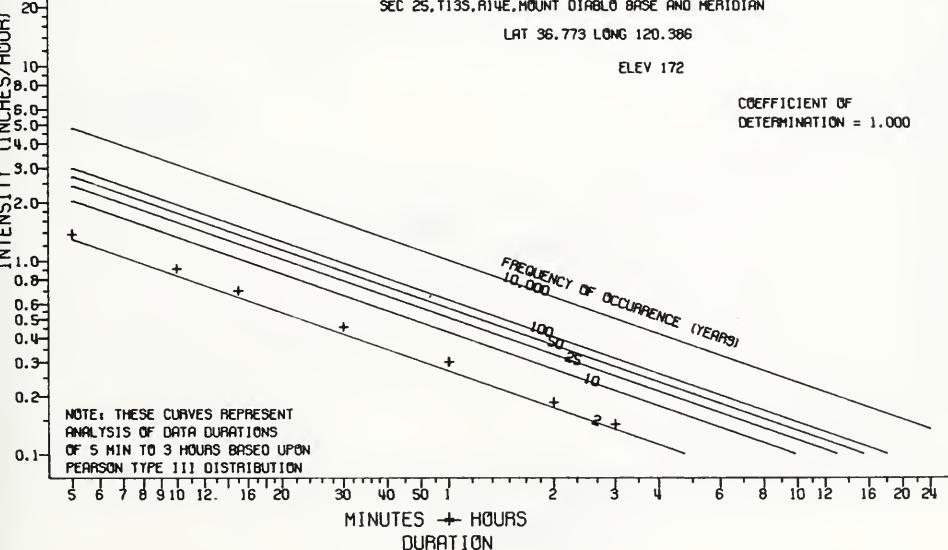
COEFFICIENT OF
 DETERMINATION = 0.997

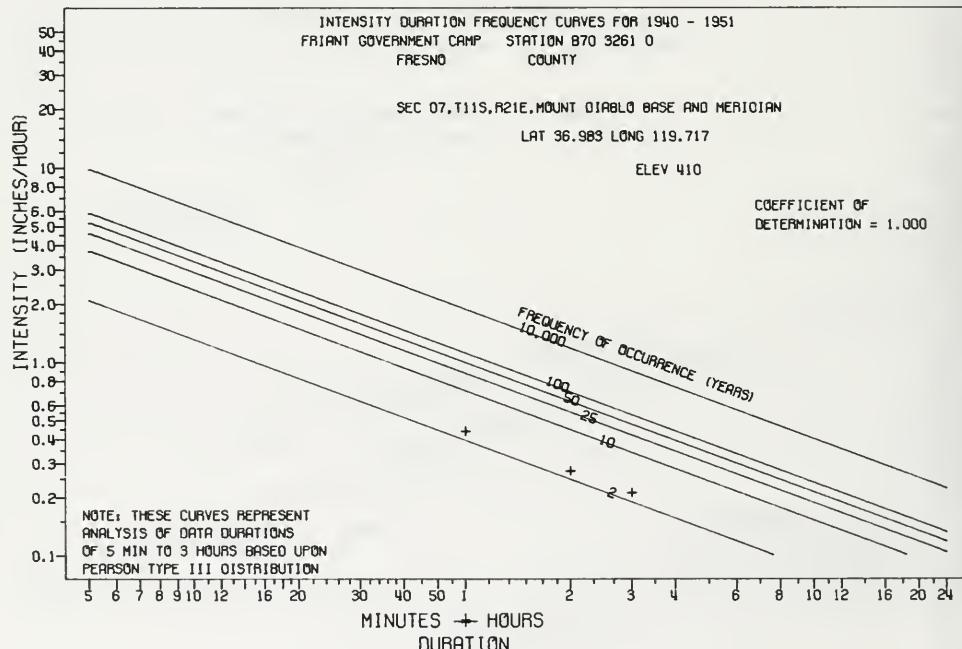
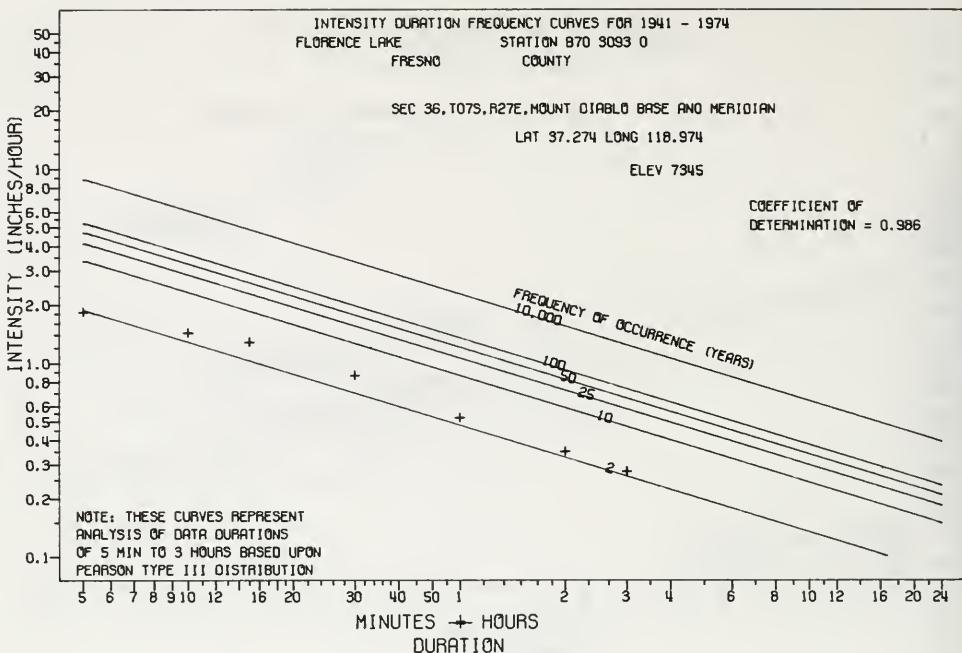


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1957
 MENOCO INNW STATION B00 5526 0
 FRESNO COUNTY

SEC 25, T13S, R14E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 36.773 LONG 120.386
 ELEV 172

COEFFICIENT OF
 DETERMINATION = 1.000





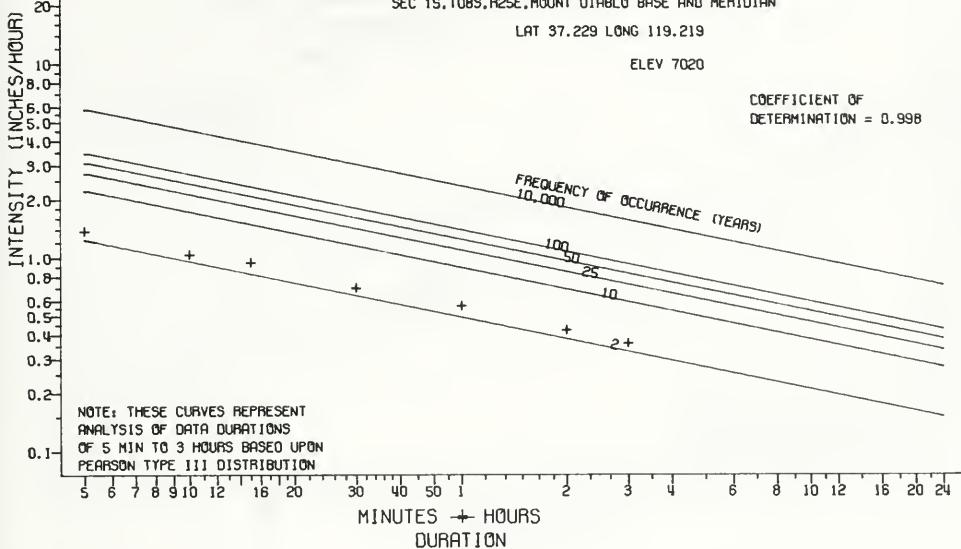
INTENSITY DURATION FREQUENCY CURVES FOR 1942 - 1974
HUNTINGTON LAKE STATION 870 4176 0
FRESNO COUNTY

SEC 15, T08S, R25E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.229 LONG 119.219

ELEV 7020

COEFFICIENT OF
DETERMINATION = 0.998



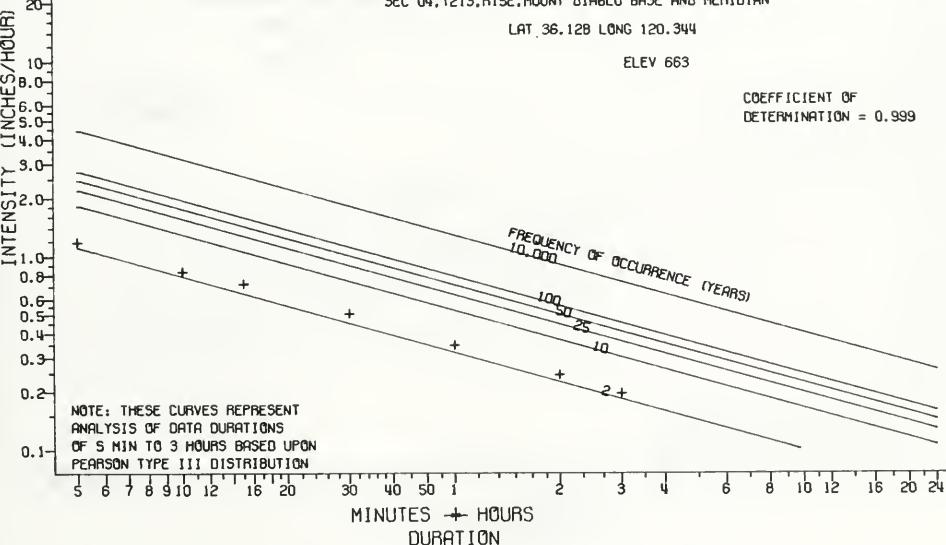
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
COALINGA 1SE STATION C00 1867 0
FRESNO COUNTY

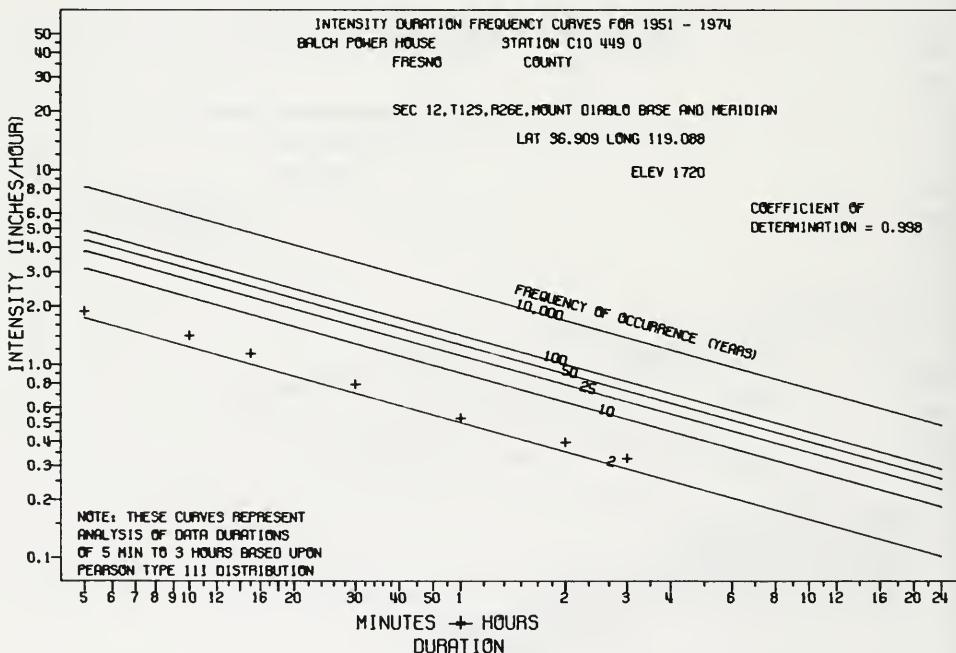
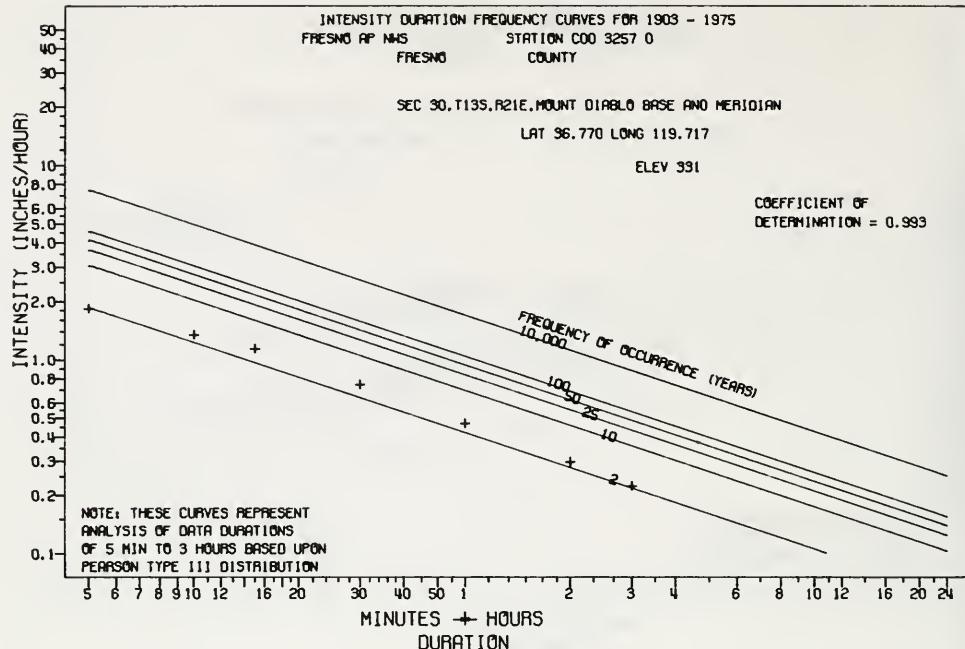
SEC 04, T21S, R18E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.128 LONG 120.344

ELEV 663

COEFFICIENT OF
DETERMINATION = 0.999





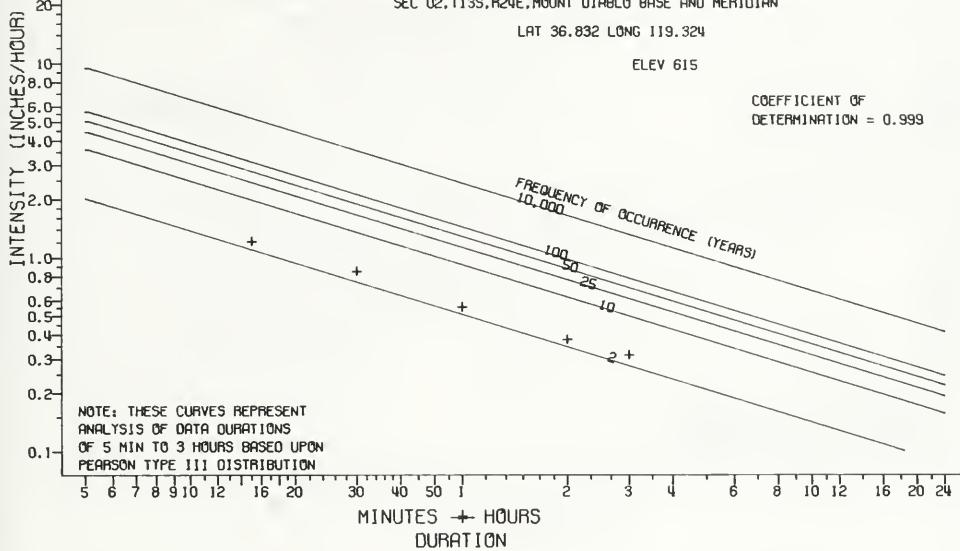
INTENSITY DURATION FREQUENCY CURVES FOR 1951 - 1974
 PINE FLAT DAM STATION C10 6896 0
 FRESNO COUNTY

SEC 02, T13S, R24E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.832 LONG 119.324

ELEV 615

COEFFICIENT OF
 DETERMINATION = 0.999



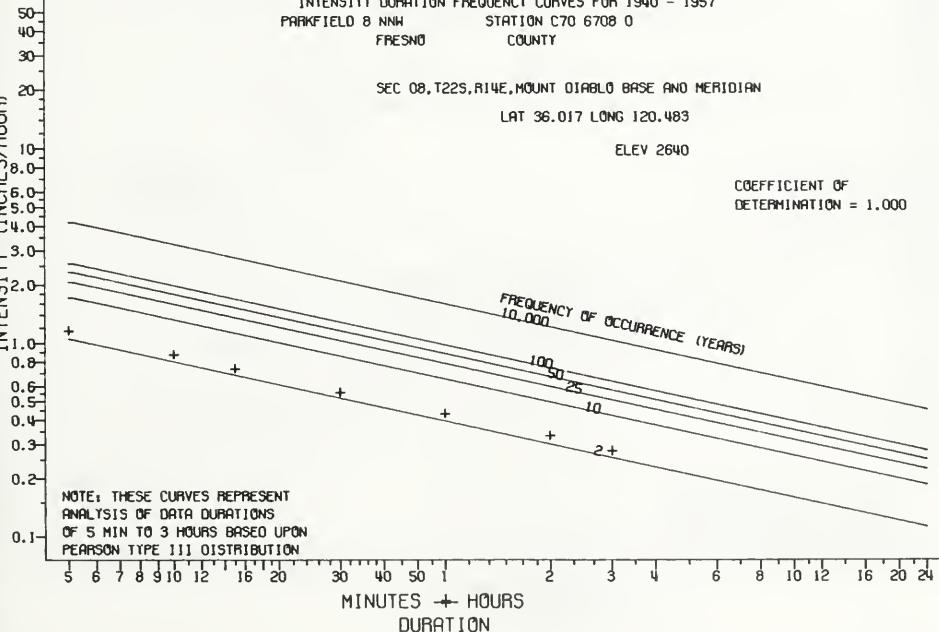
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1957
 PARKFIELD 8 NNW STATION C70 6708 0
 FRESNO COUNTY

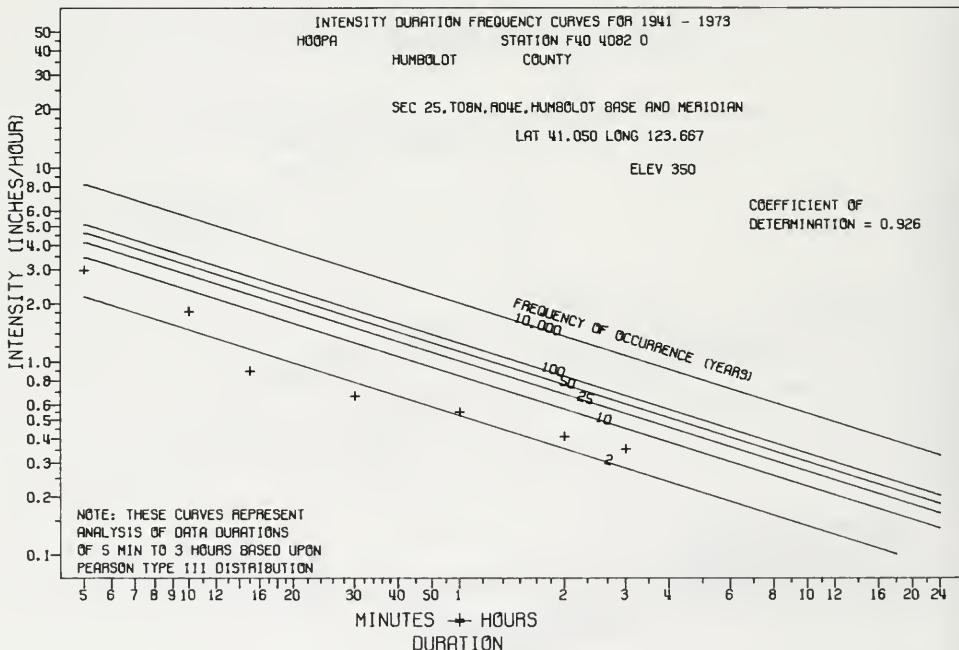
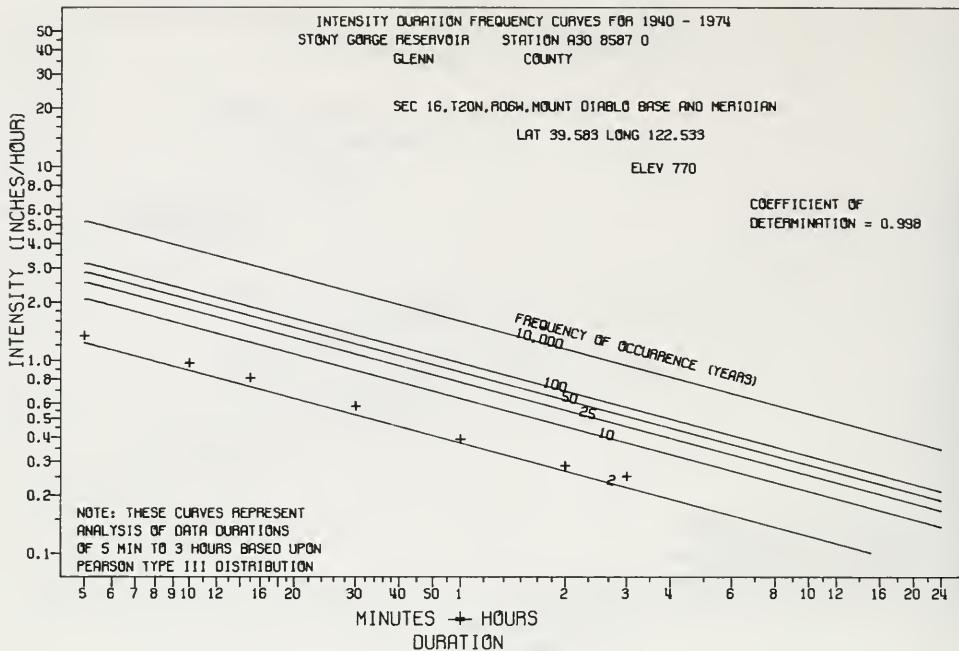
SEC 08, T22S, R14E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.017 LONG 120.483

ELEV 2640

COEFFICIENT OF DETERMINATION = 1.000





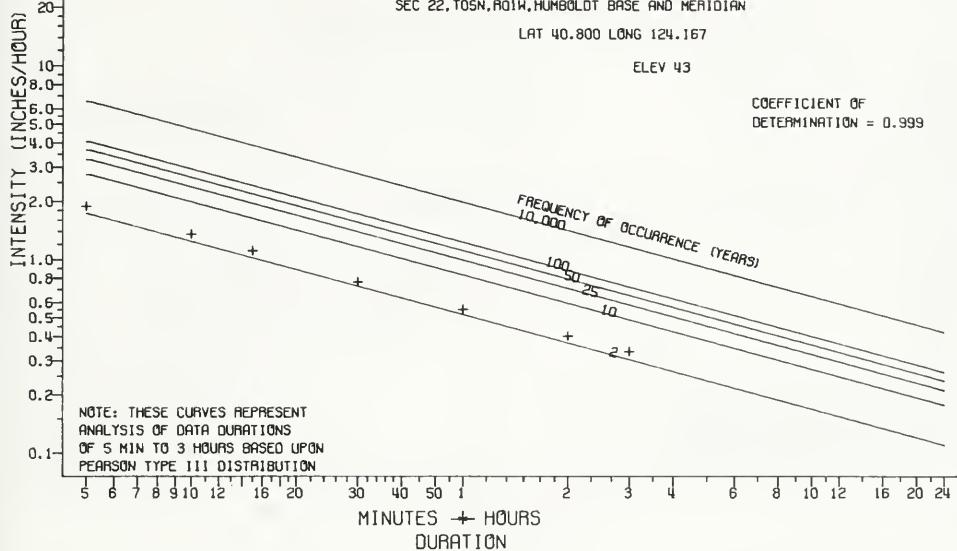
INTENSITY DURATION FREQUENCY CURVES FOR 1904 - 1975
 EUREKA NWS STATION F60 2907 0
 HUMBOLDT COUNTY

SEC 22, T05N, R01W, HUMBOLDT BASE AND MERIDIAN

LAT 40.800 LONG 124.167

ELEV 43

COEFFICIENT OF
 DETERMINATION = 0.999



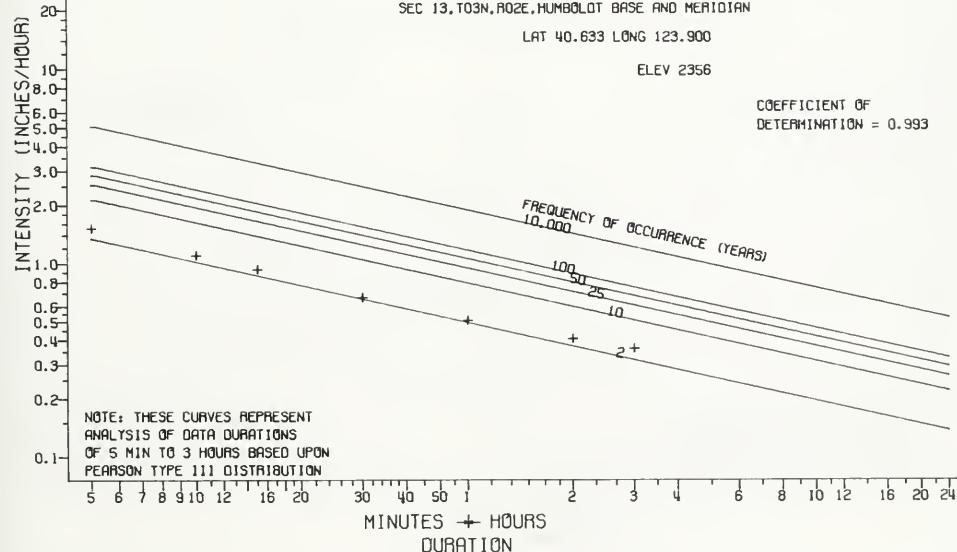
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 KNEELAND 10SE STATION F60 4587 0
 HUMBOLDT COUNTY

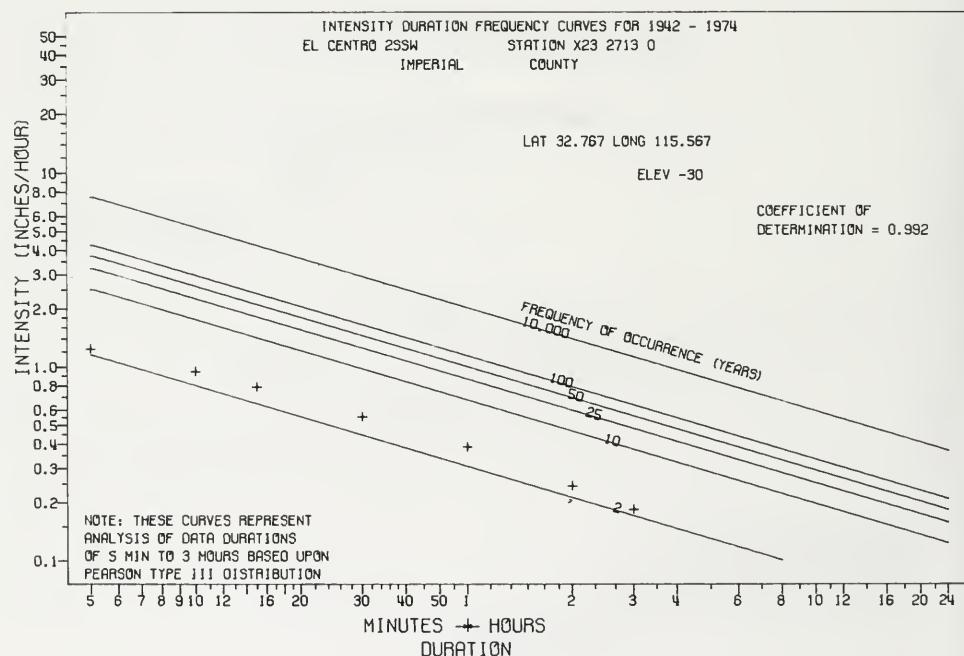
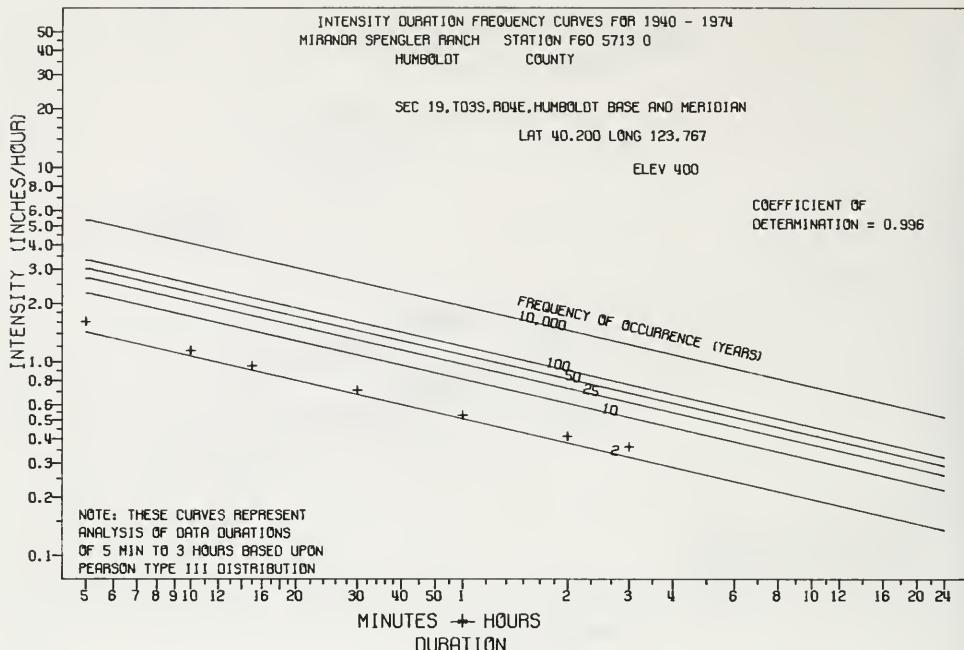
SEC 13, T03N, R02E, HUMBOLDT BASE AND MERIDIAN

LAT 40.633 LONG 123.900

ELEV 2356

COEFFICIENT OF
 DETERMINATION = 0.993





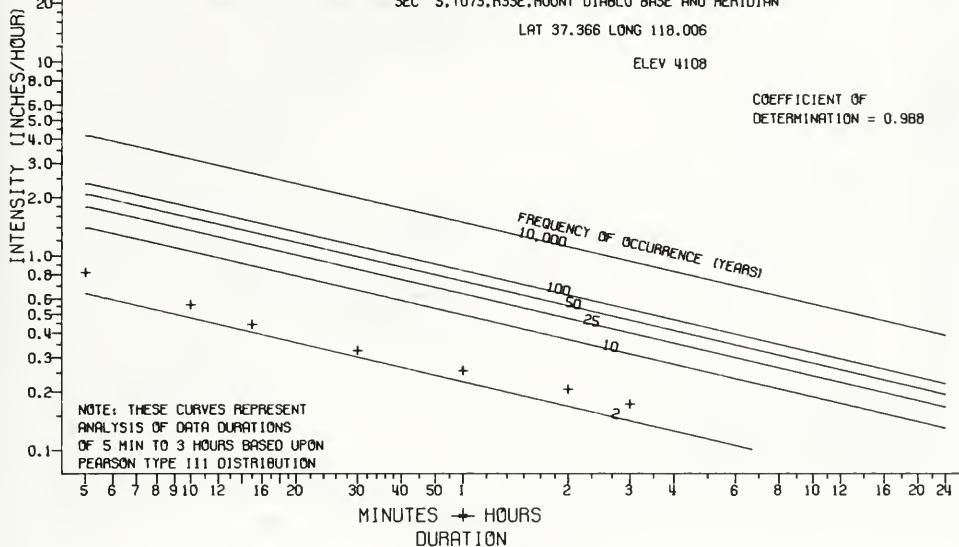
INTENSITY DURATION FREQUENCY CURVES FOR 1954 - 1975
 BISHOP AP NMS STATION W03 822 0
 INYO COUNTY

SEC S,T07S,R33E,MOUNT DIABLO BASE AND MERIDIAN

LAT 37.366 LONG 118.006

ELEV 4108

COEFFICIENT OF
 DETERMINATION = 0.988



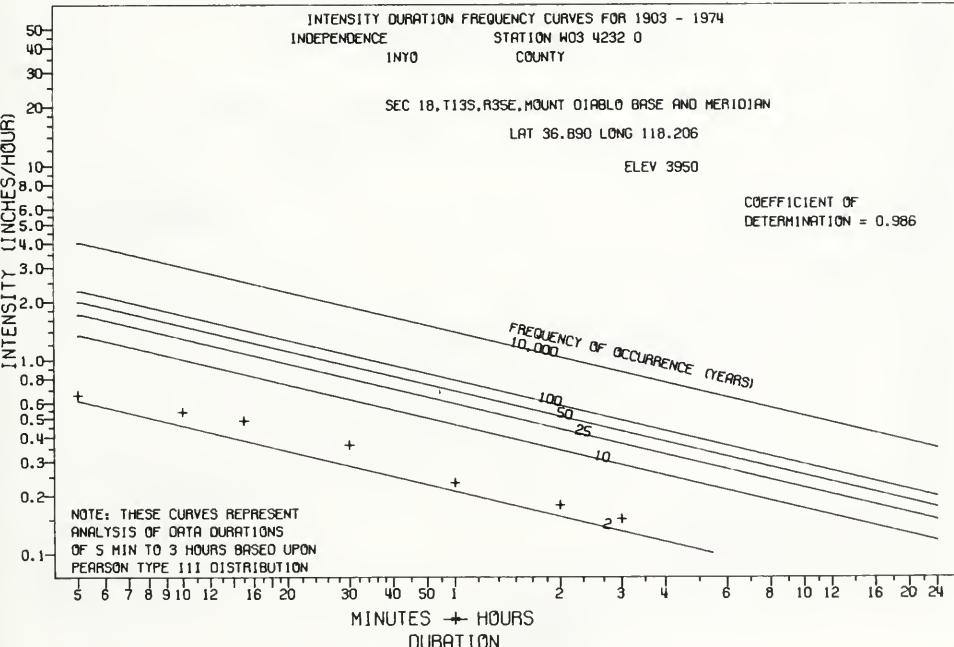
INTENSITY DURATION FREQUENCY CURVES FOR 1903 - 1974
 INDEPENDENCE STATION W03 4232 0
 INYO COUNTY

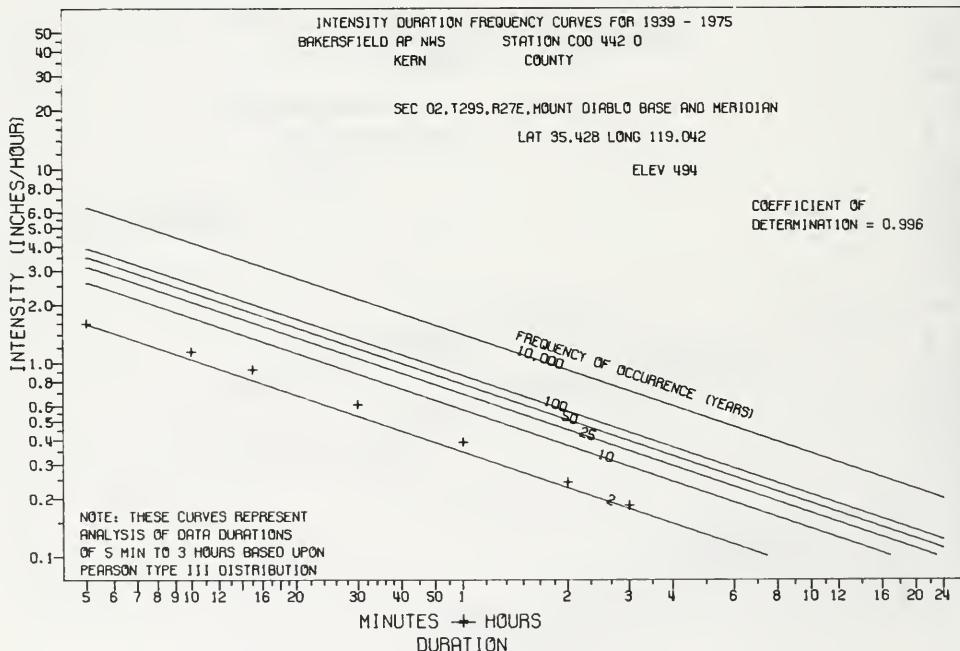
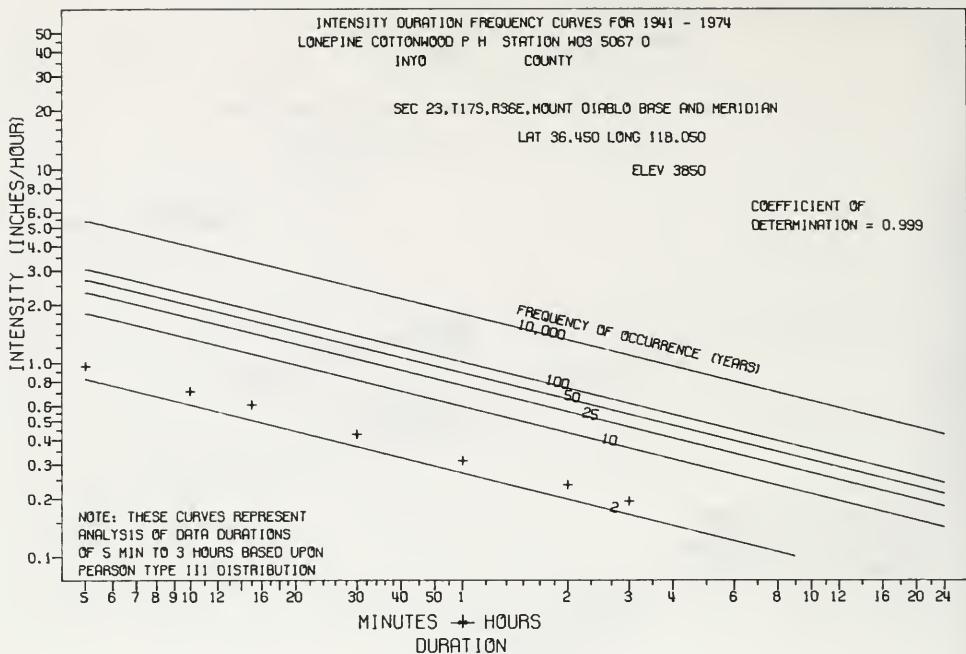
SEC 18,T13S,R35E,MOUNT DIABLO BASE AND MERIDIAN

LAT 36.890 LONG 118.206

ELEV 3950

COEFFICIENT OF
 DETERMINATION = 0.986





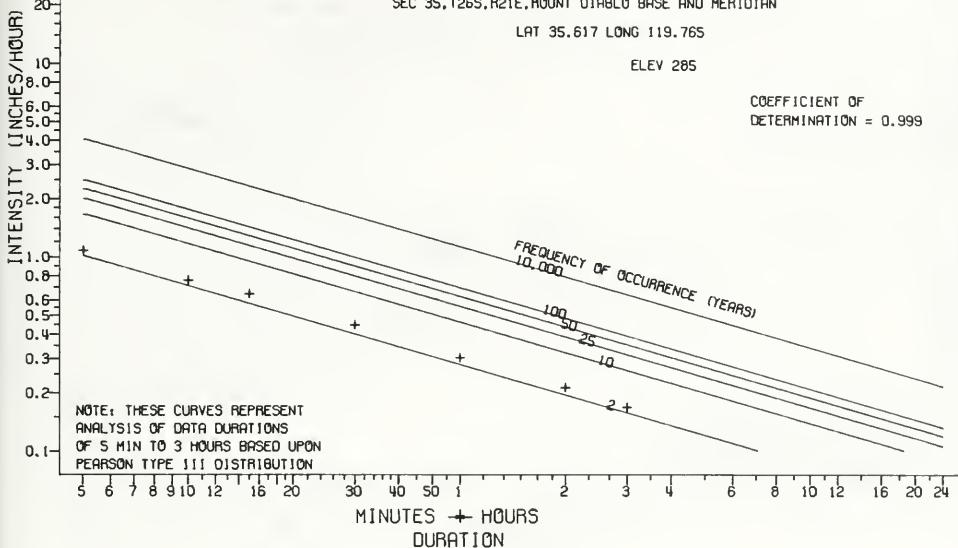
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 LOST HILLS STATION C00 5151 0
 KERN COUNTY

SEC 35, T26S, R21E, MOUNT DIABLO BASE AND MERIDIAN

LAT 35.617 LONG 119.765

ELEV 285

COEFFICIENT OF
 DETERMINATION = 0.999



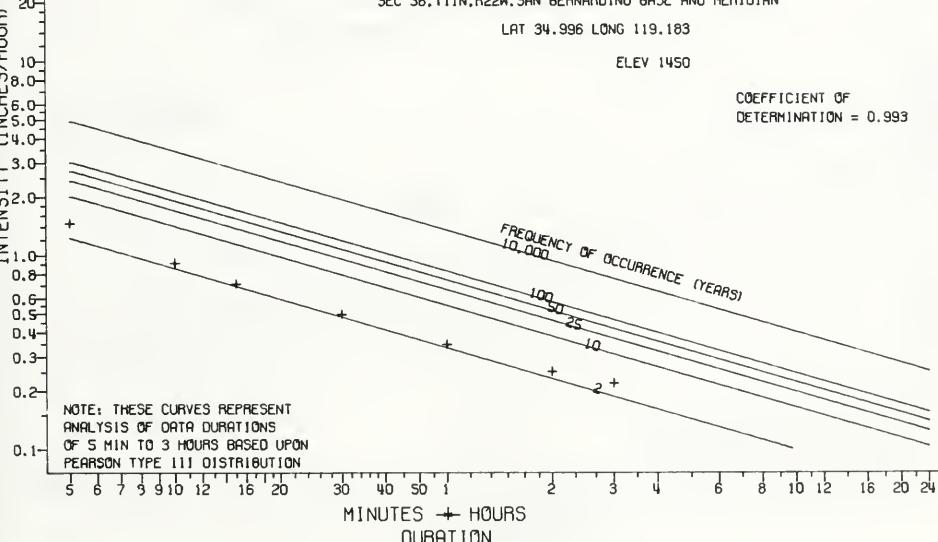
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1968
 SAN EMIGDIO RANCH STATION C00 7753 0
 KERN COUNTY

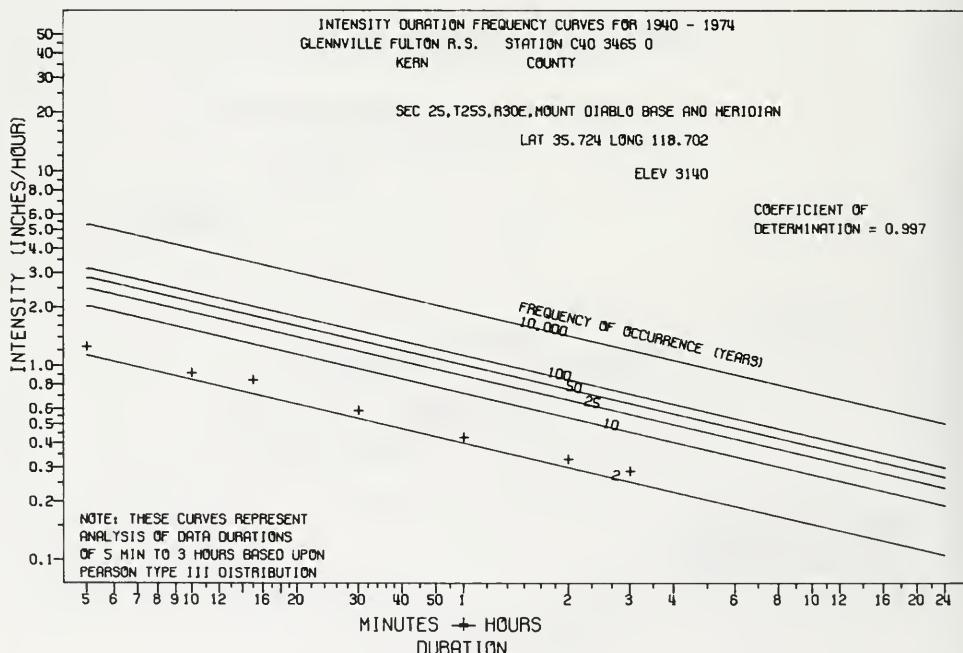
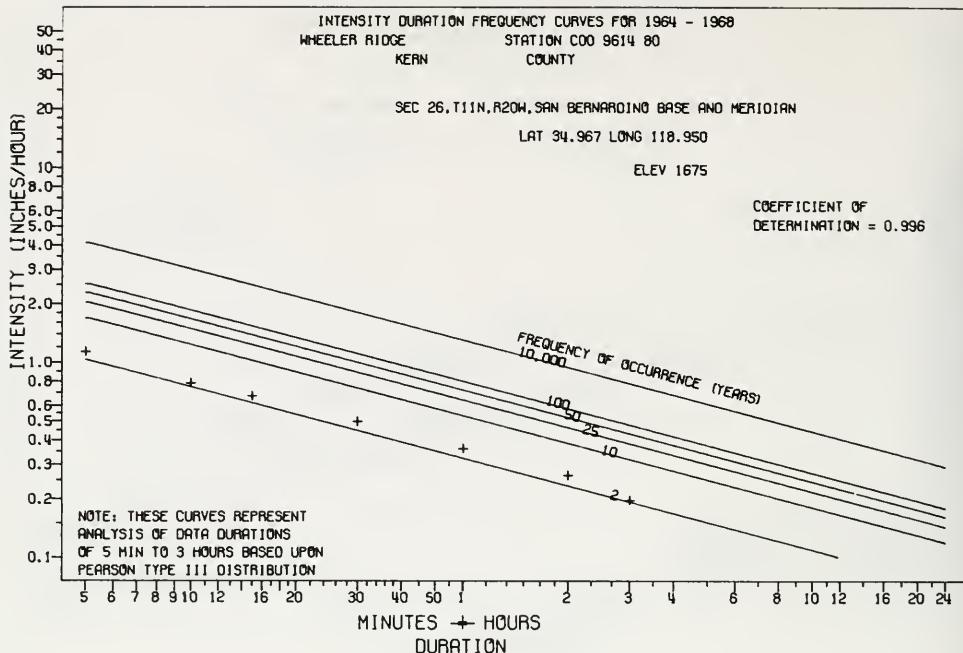
SEC 36, T11N, R22W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.996 LONG 119.183

ELEV 1450

COEFFICIENT OF DETERMINATION = 0.999



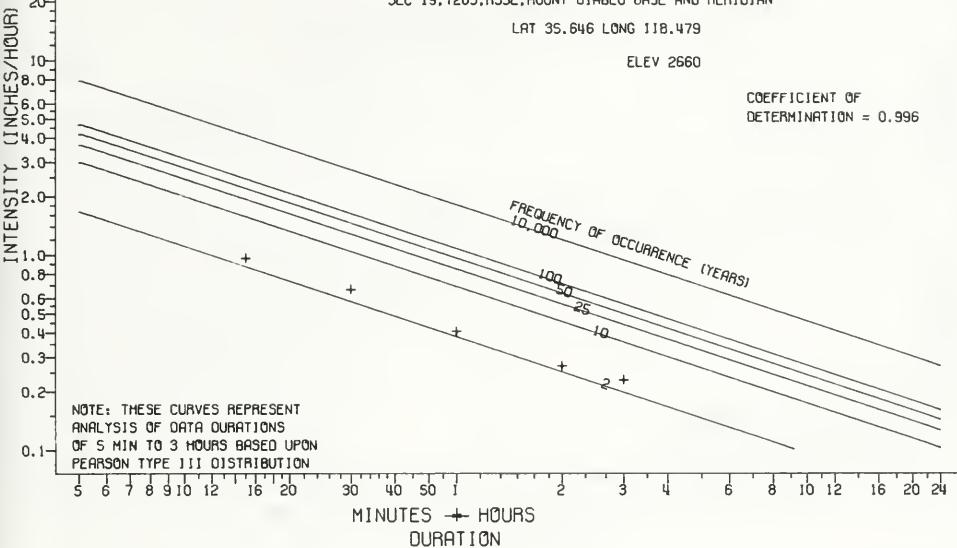


INTENSITY DURATION FREQUENCY CURVES FOR 1954 - 1975
ISABELLA DAM STATION C50 4303 0
KERN COUNTY

SEC 19, T26S, R33E, MOUNT DIABLO BASE AND MERIDIAN
LAT 35.646 LONG 118.479

ELEV 2660

COEFFICIENT OF
DETERMINATION = 0.996

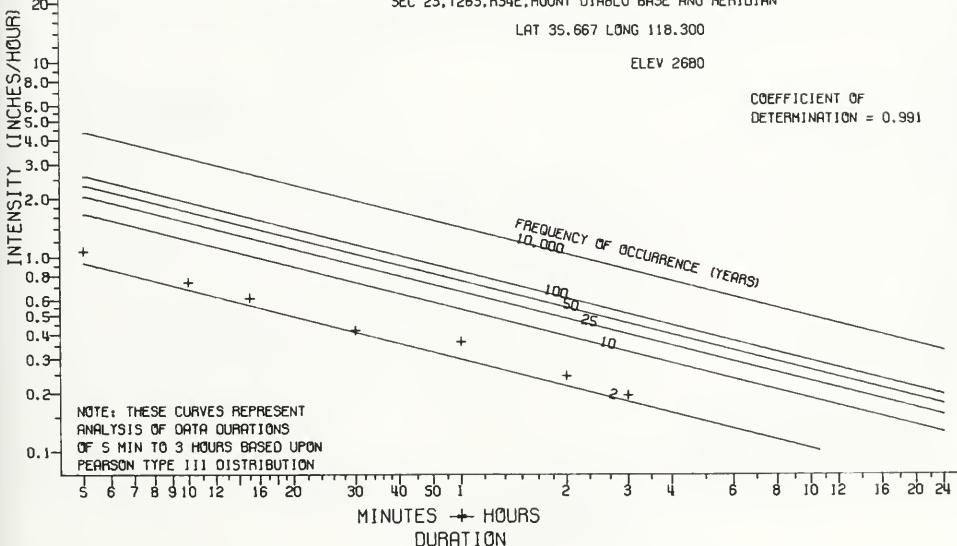


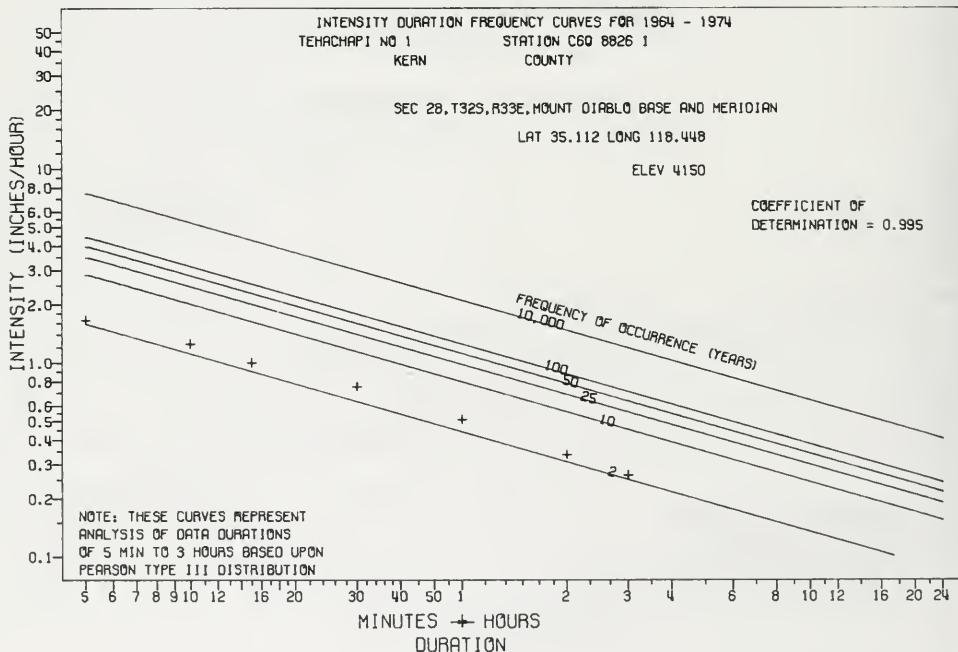
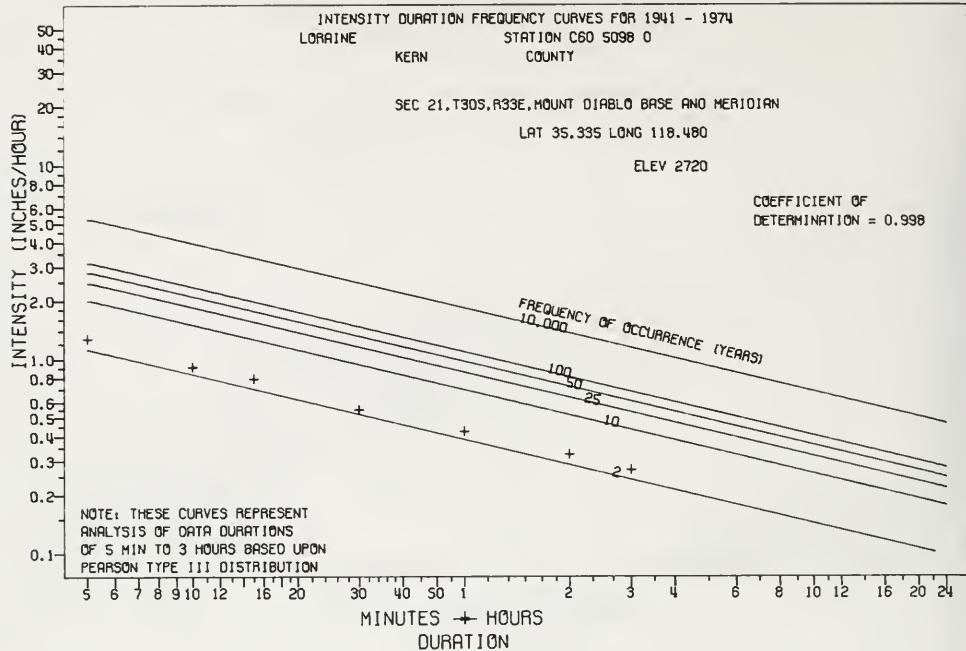
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
WELDON I WSH STATION C50 9512 0
KERN COUNTY

SEC 23, T26S, R34E, MOUNT DIABLO BASE AND MERIDIAN
LAT 35.667 LONG 118.300

ELEV 2680

COEFFICIENT OF
DETERMINATION = 0.991





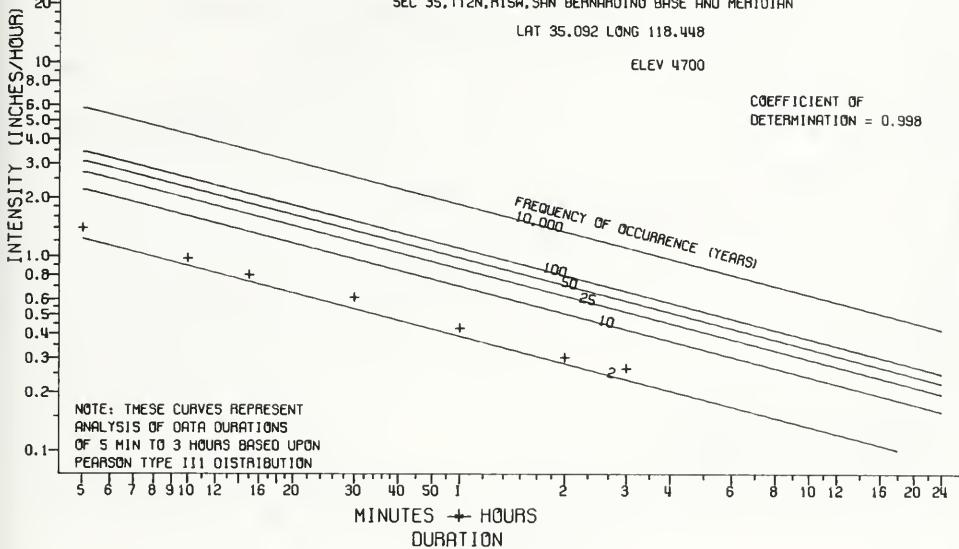
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 TEHACHAPI NO 2 STATION C60 8826 2
 KERN COUNTY

SEC 35, T12N, R15W, SAN BERNARDINO BASE AND MERIDIAN

LAT 35.092 LONG 118.448

ELEV 4700

COEFFICIENT OF
 DETERMINATION = 0.998



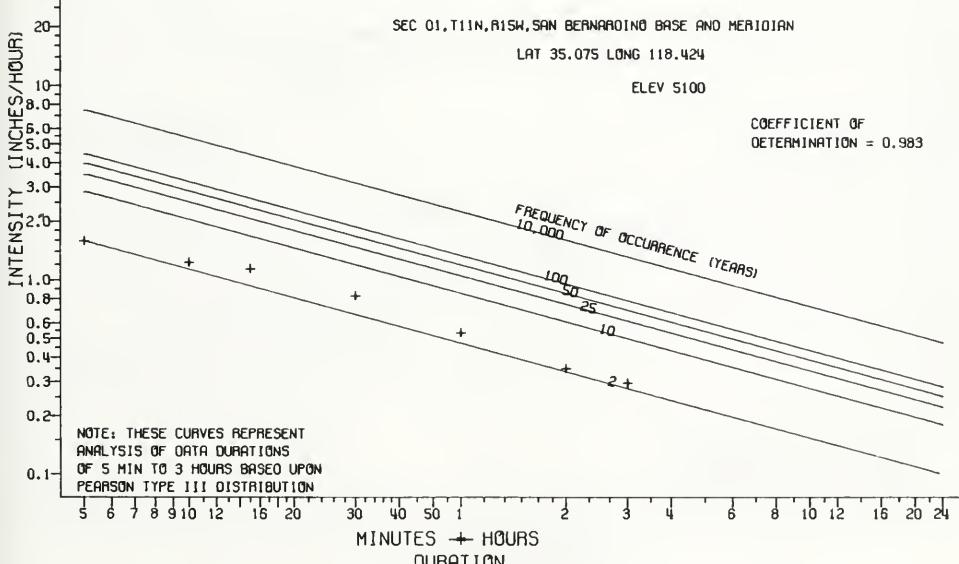
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 TEHACHAPI NO 4 STATION C60 8826 4
 KERN COUNTY

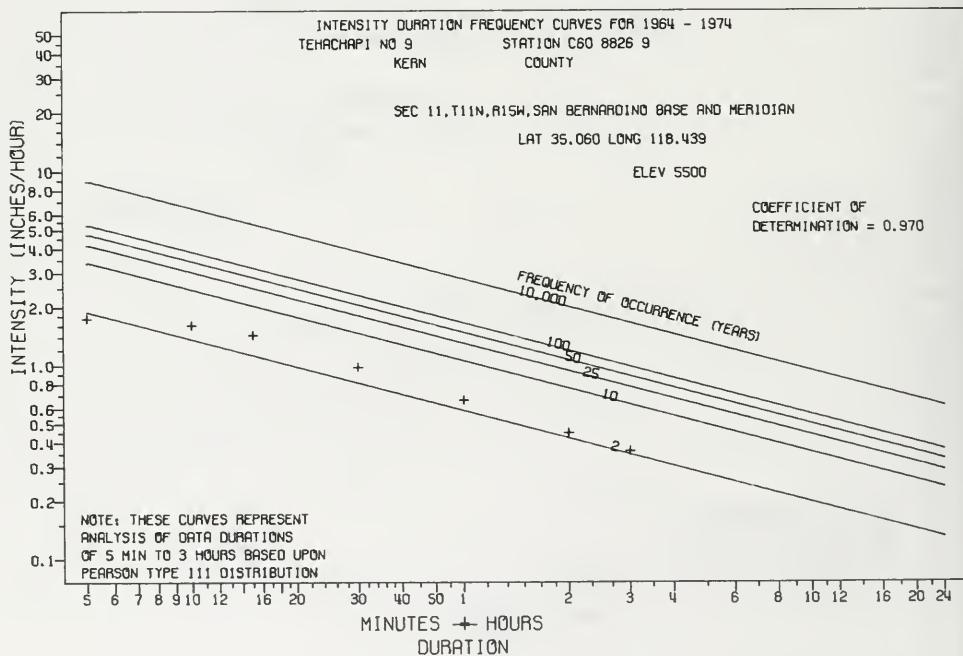
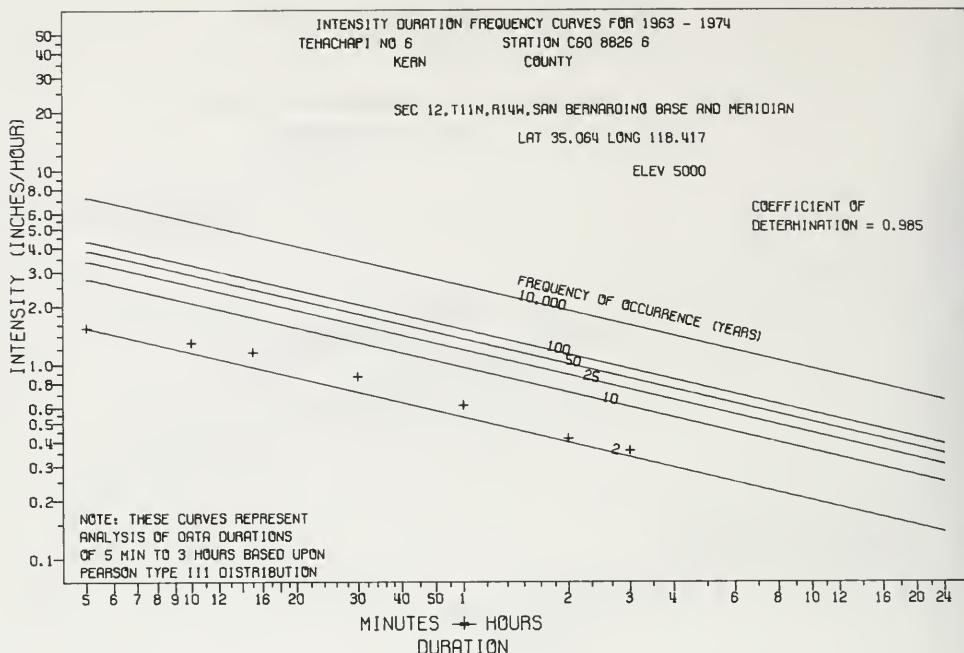
SEC 01, T11N, R15W, SAN BERNARDINO BASE AND MERIDIAN

LAT 35.075 LONG 118.424

ELEV 5100

COEFFICIENT OF
 DETERMINATION = 0.983

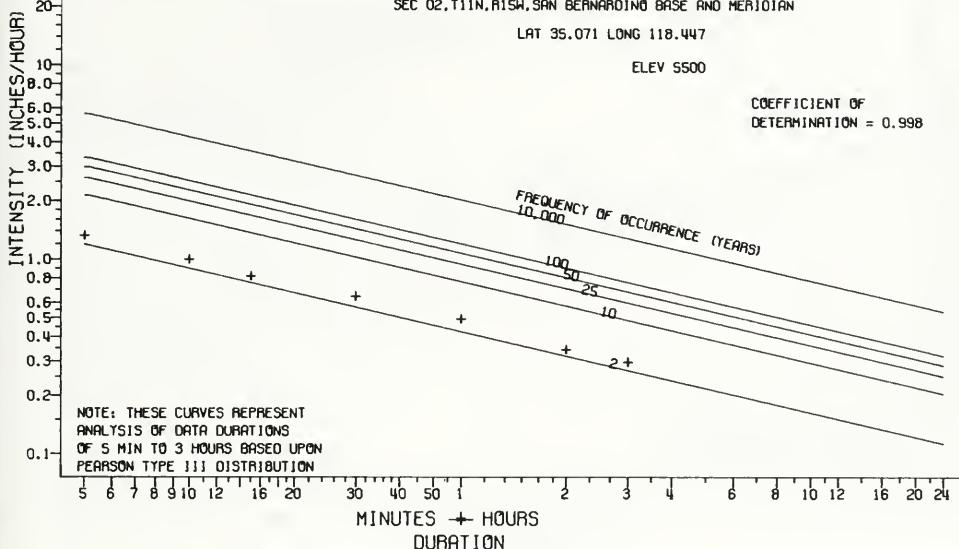




INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 TEHACHAPI NO 12 STATION C60 8826 12
 KERN COUNTY

SEC 02, T11N, R15W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 35.071 LONG 118.447
 ELEV 5500

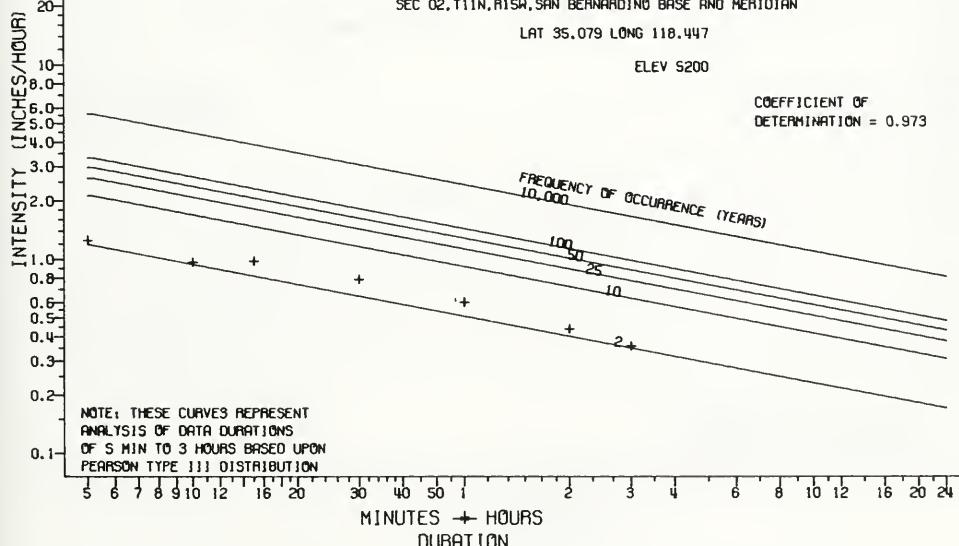
COEFFICIENT OF
 DETERMINATION = 0.998

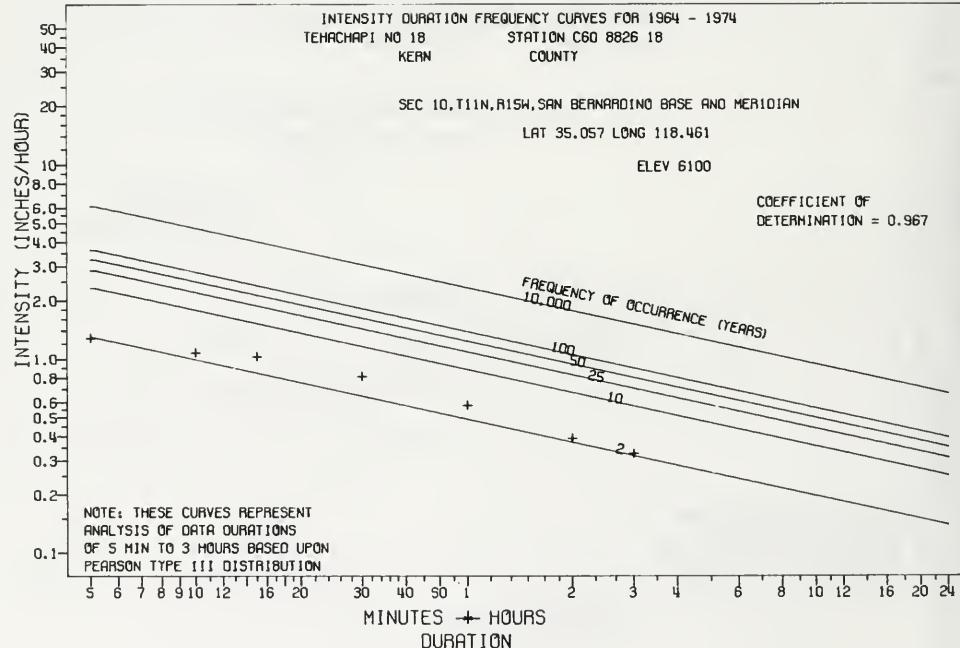
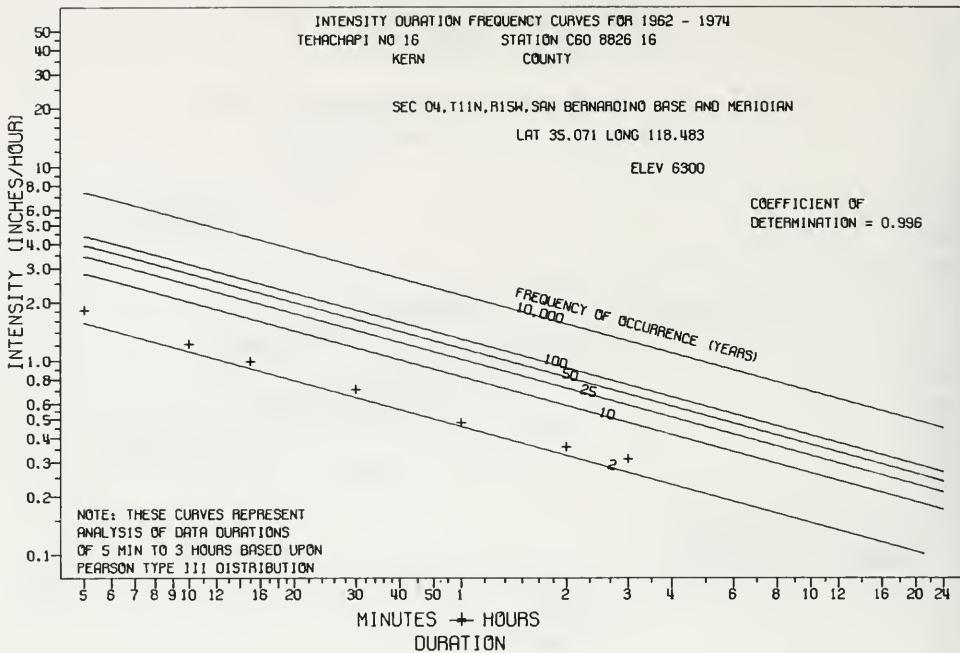


INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 TEHACHAPI NO 13 STATION C60 8826 13
 KERN COUNTY

SEC 02, T11N, R15W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 35.079 LONG 118.447
 ELEV 5200

COEFFICIENT OF
 DETERMINATION = 0.973





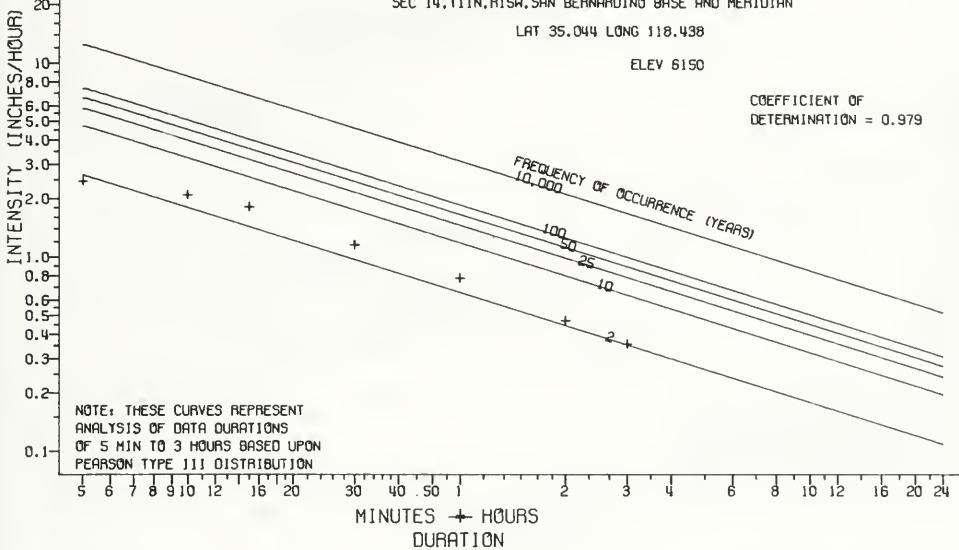
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 TEHACHAPI NO 20 STATION C60 8826 20
 KERN COUNTY

SEC 14, T11N, R15W, SAN BERNARDINO BASE AND MERIDIAN

LAT 35.044 LONG 118.438

ELEV 6150

COEFFICIENT OF
 DETERMINATION = 0.979



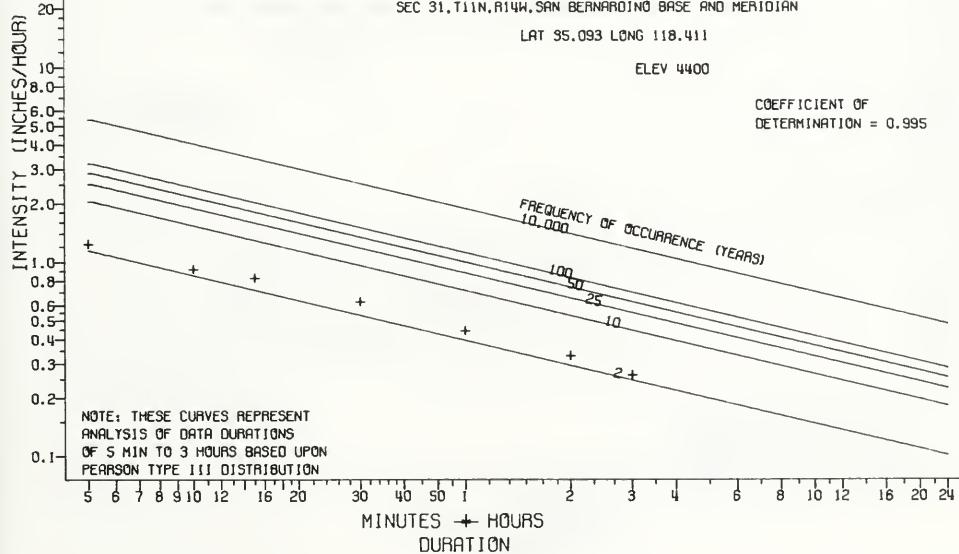
INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1974
 TEHACHAPI NO 26 STATION C60 8826 26
 KERN COUNTY

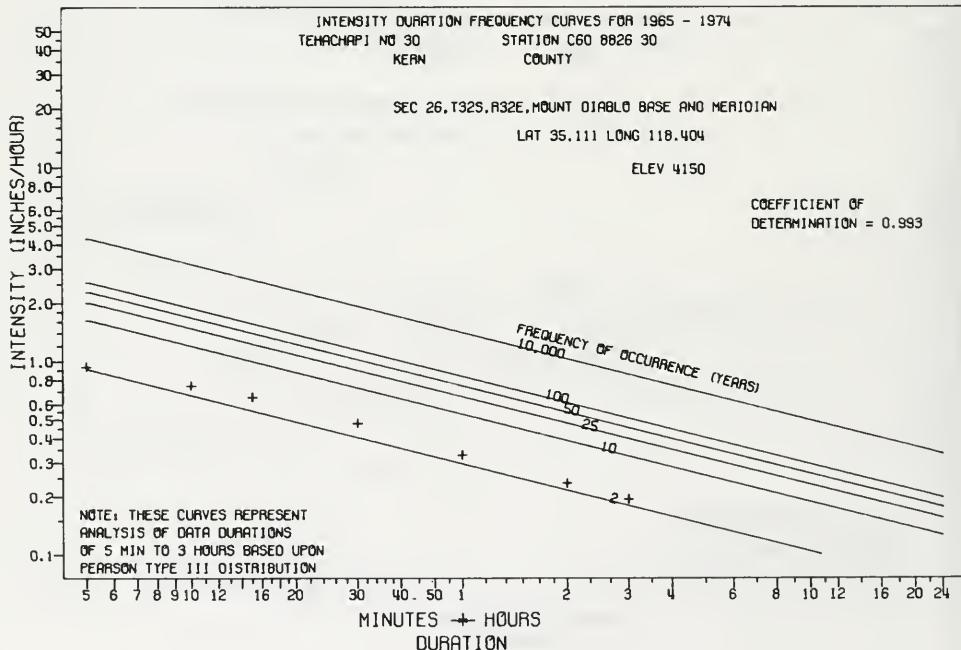
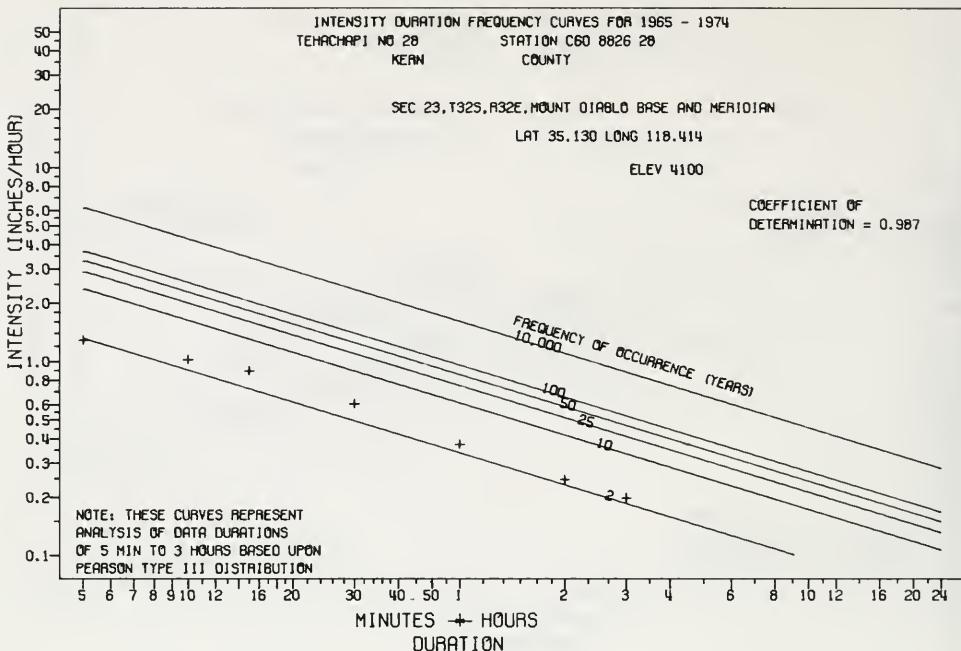
SEC 31, T11N, R14W, SAN BERNARDINO BASE AND MERIDIAN

LAT 35.093 LONG 118.411

ELEV 4400

COEFFICIENT OF
 DETERMINATION = 0.995





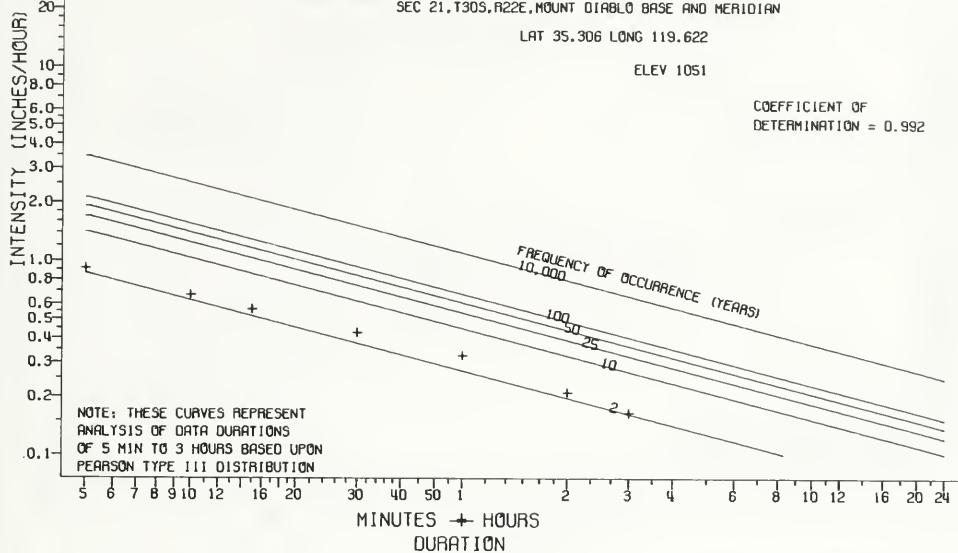
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1974
 MC KITTRICK FIRE STATION STATION C70 5480 1
 KERN COUNTY

SEC 21, T30S, R22E, MOUNT DIABLO BASE AND MERIDIAN

LAT 35.306 LONG 119.622

ELEV 1051

COEFFICIENT OF
 DETERMINATION = 0.992



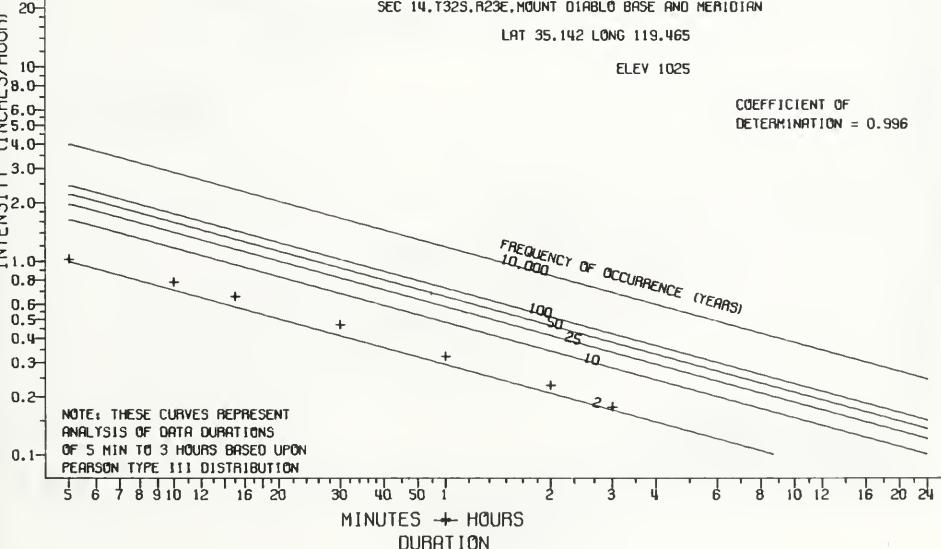
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 TAFT STATION C70 8752 0
 KERN COUNTY

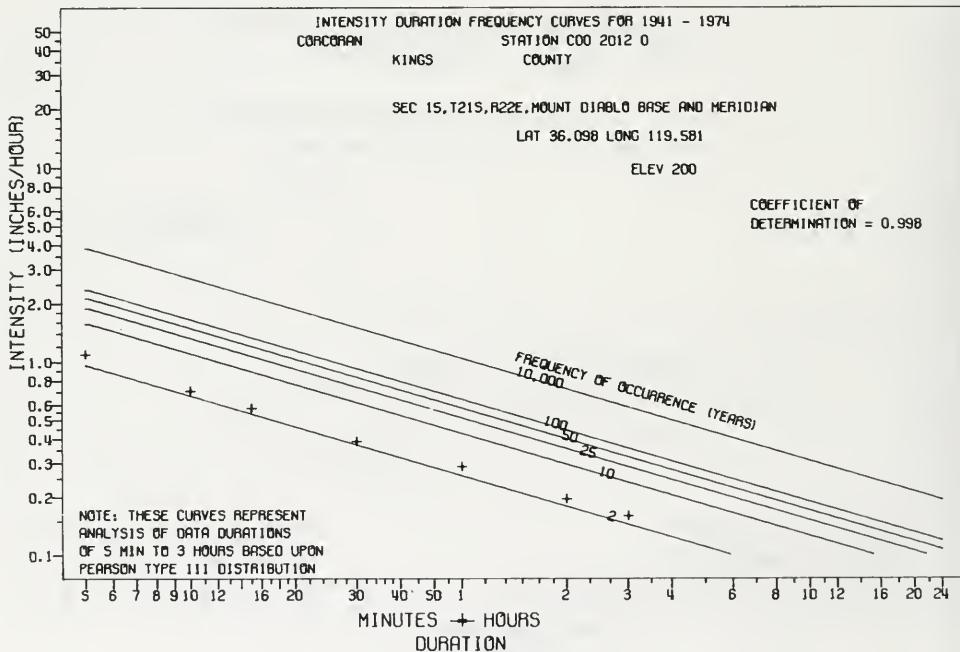
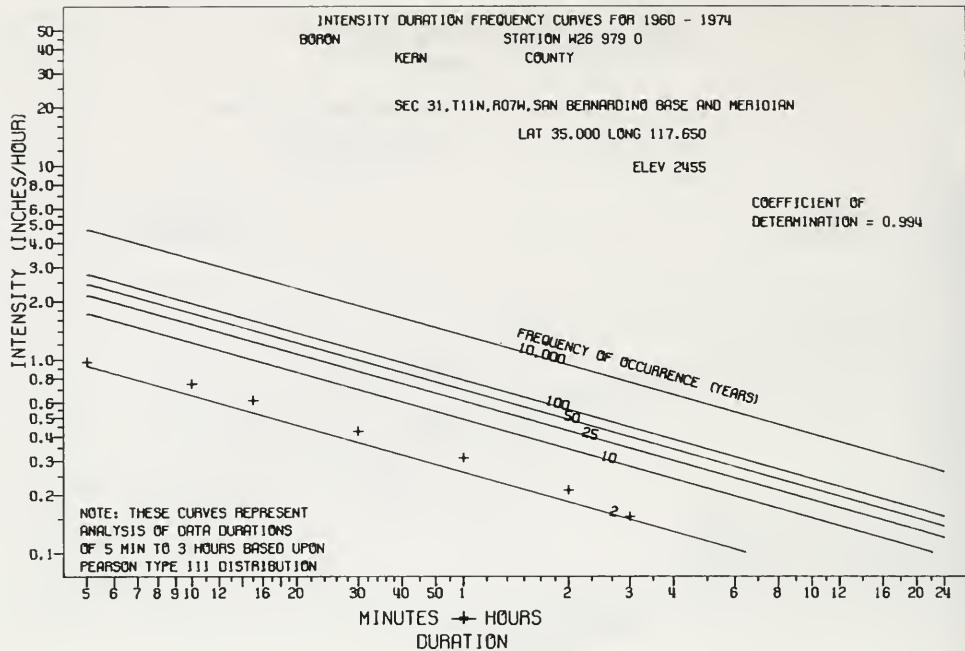
SEC 14, T32S, R23E, MOUNT DIABLO BASE AND MERIDIAN

LAT 35.142 LONG 119.465

ELEV 1025

COEFFICIENT OF
 DETERMINATION = 0.996





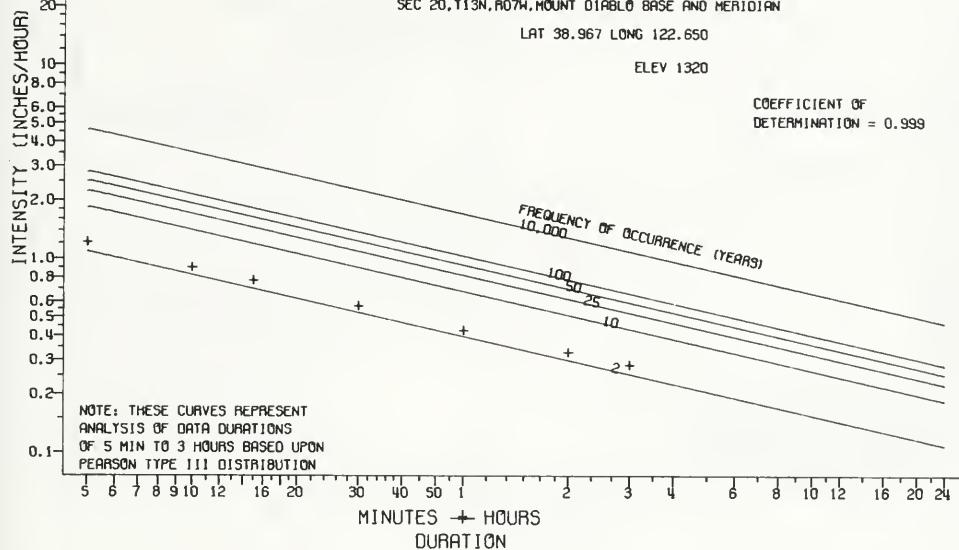
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 CLEAR LAKE STATION ABO 1806 0
 LAKE COUNTY

SEC 20, T13N, R07W, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.967 LONG 122.650

ELEV 1320

COEFFICIENT OF
 DETERMINATION = 0.999



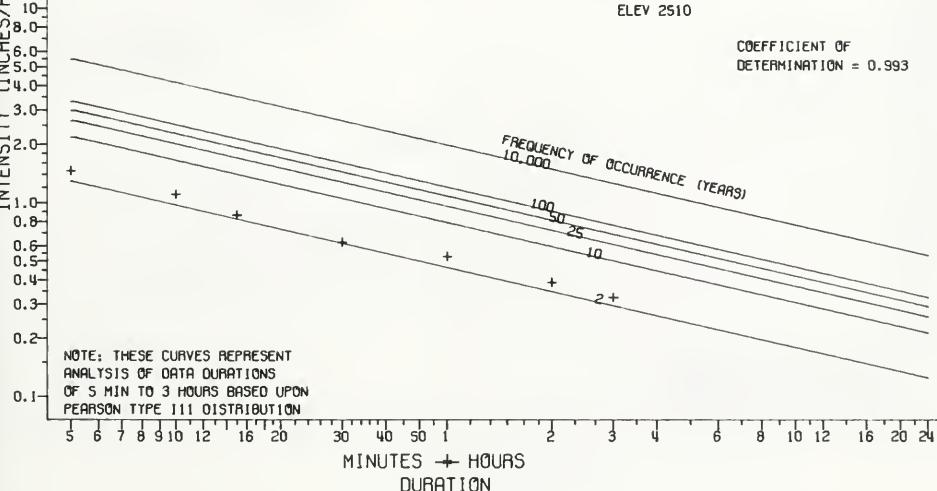
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 HOPLAND 8 NE STATION ABO 4097 0
 LAKE COUNTY

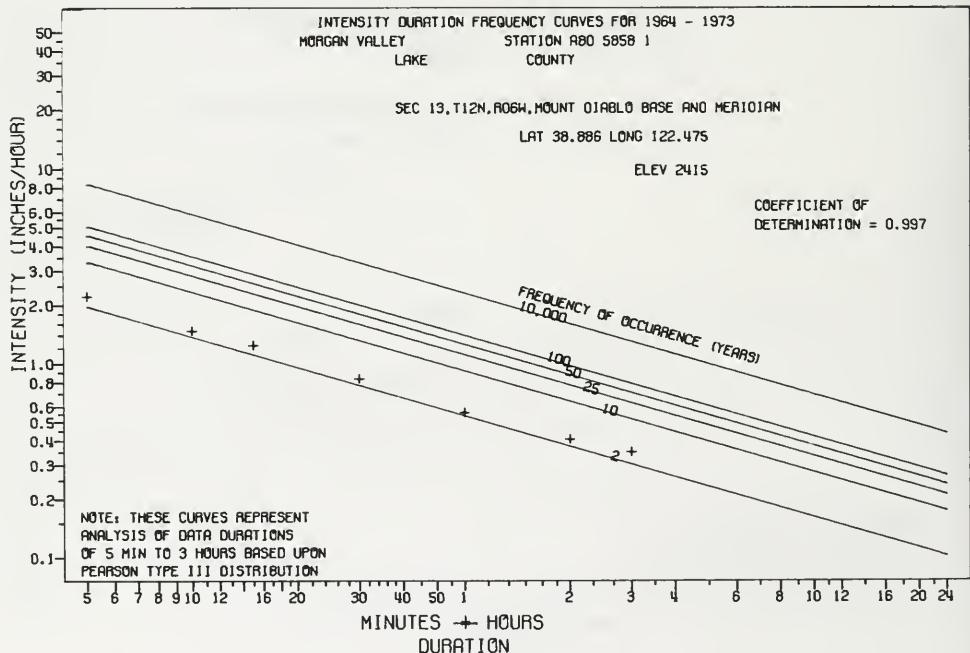
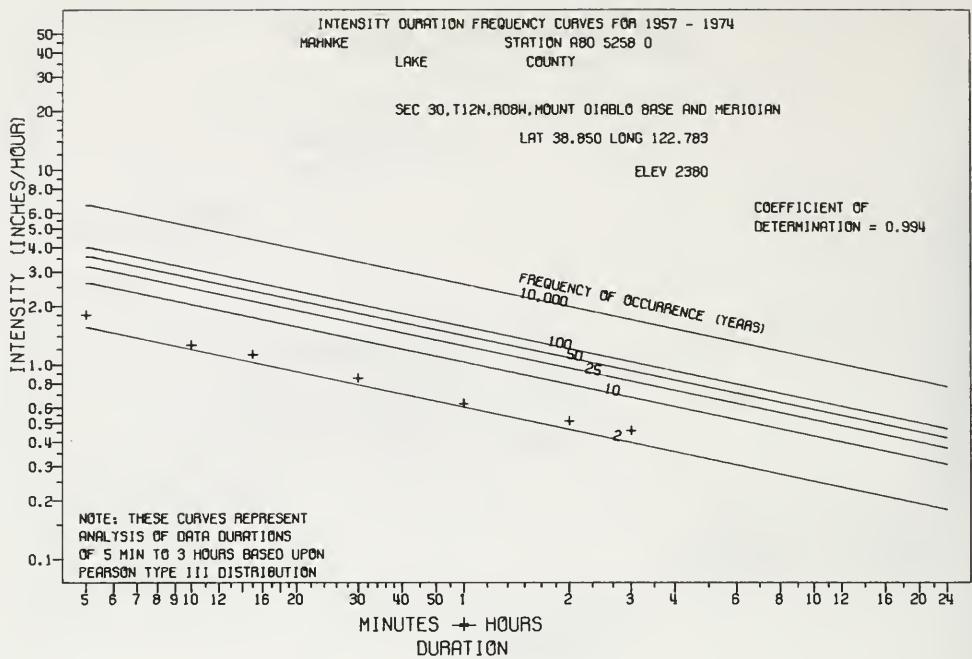
SEC 32, T14N, R10W, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.017 LONG 123.000

ELEV 2510

COEFFICIENT OF
 DETERMINATION = 0.993





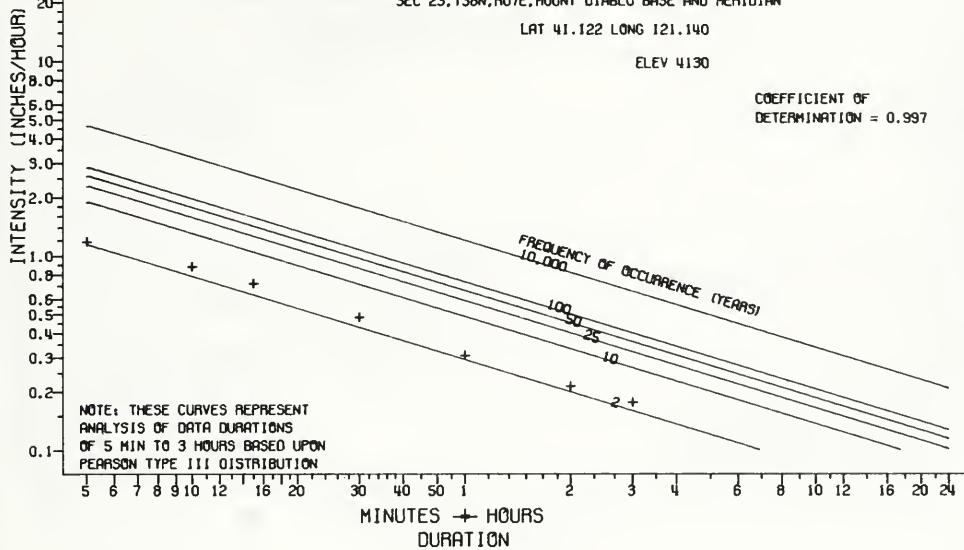
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 BIEBER STATION R10 731 0
 LASSEN COUNTY

SEC 23, T38N, R07E, MOUNT DIABLO BASE AND MERIDIAN

LAT 41.122 LONG 121.140

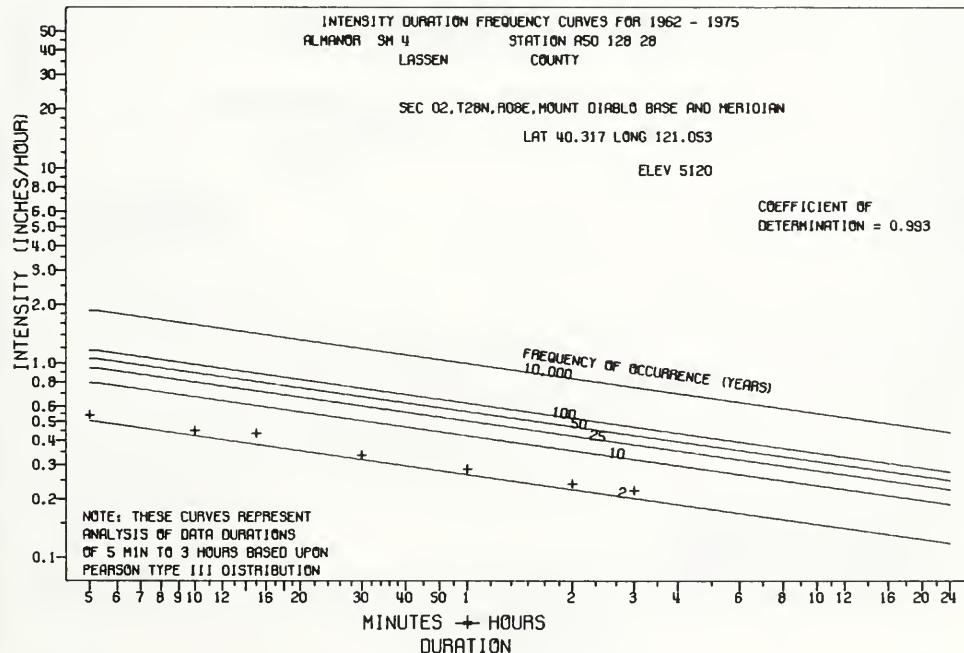
ELEV 4130

COEFFICIENT OF
 DETERMINATION = 0.997



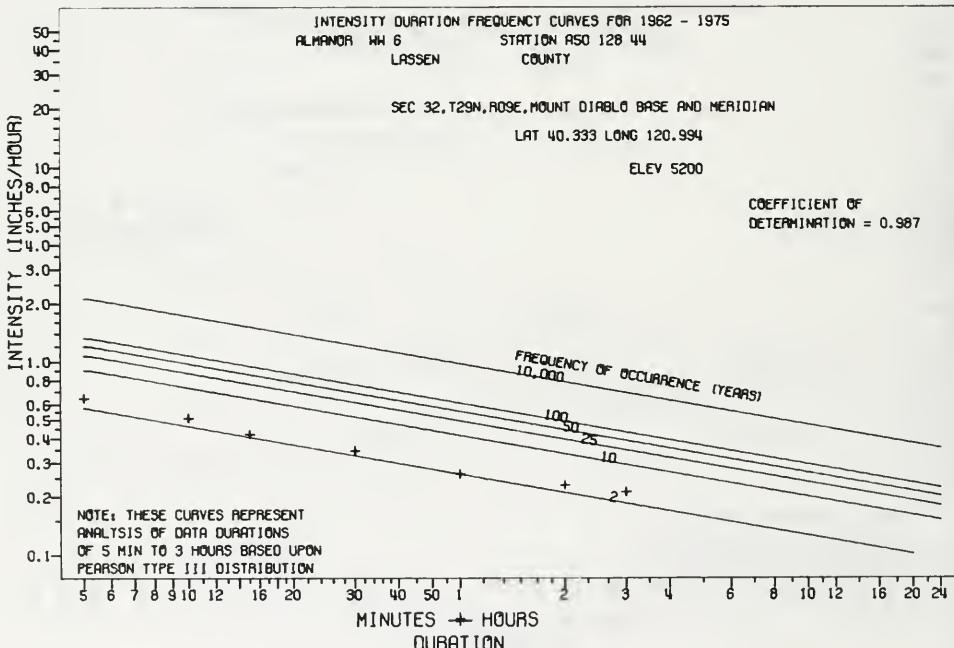
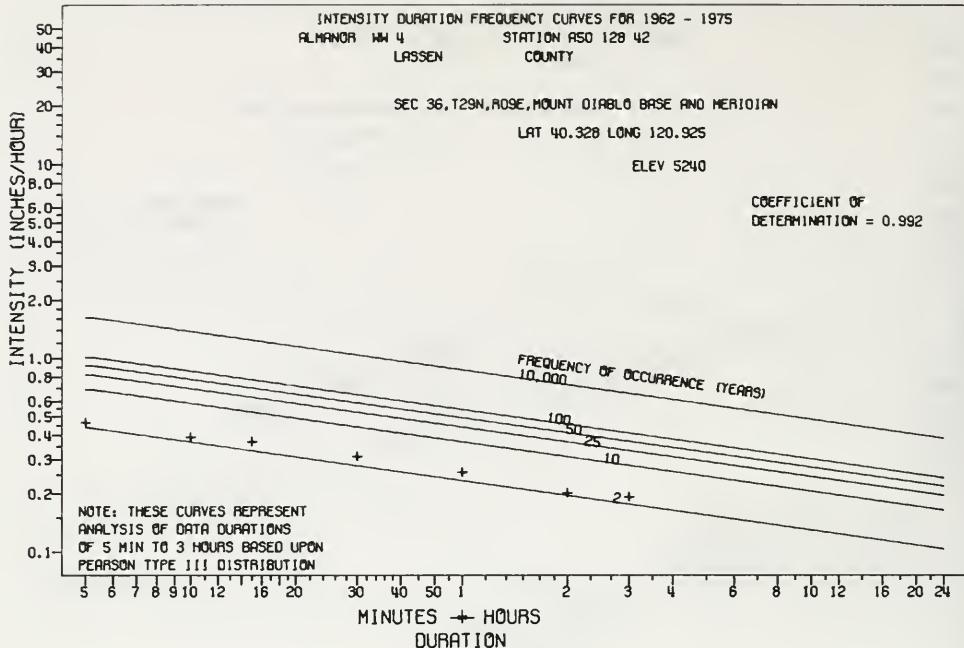
NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON

PEARSON TYPE III DISTRIBUTION



NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON

PEARSON TYPE III DISTRIBUTION

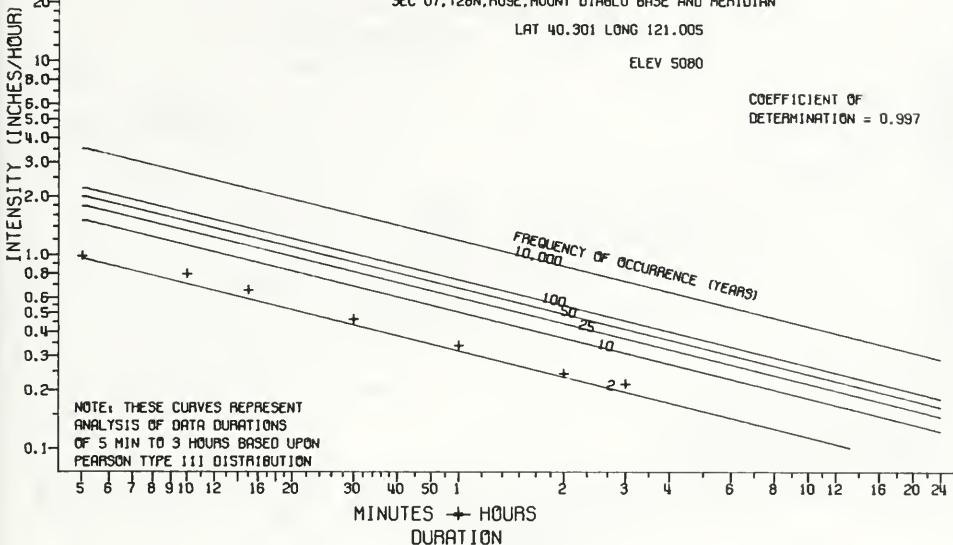


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1952
 WESTWOOD STATION A50 9599 0
 LASSEN COUNTY

SEC 07, T28N, R09E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.301 LONG 121.005

ELEV 5080

COEFFICIENT OF
 DETERMINATION = 0.997

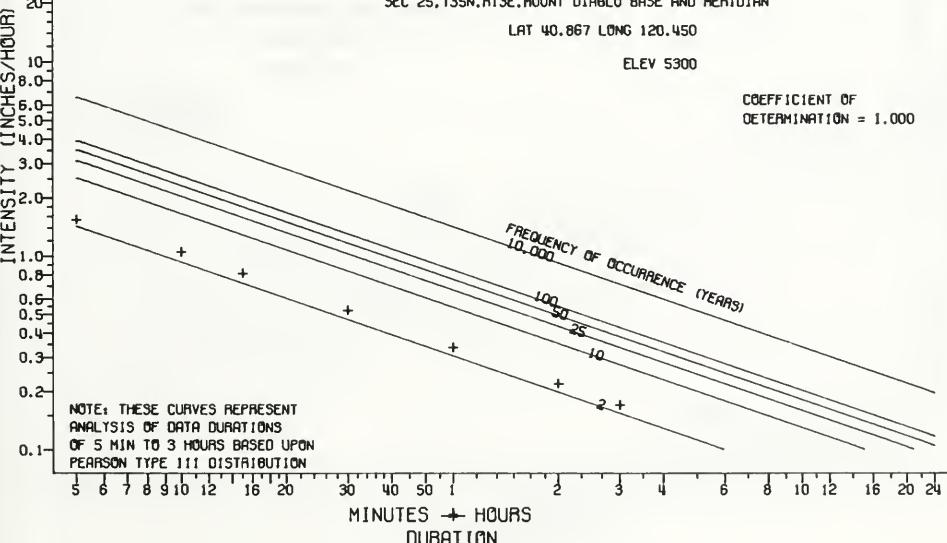


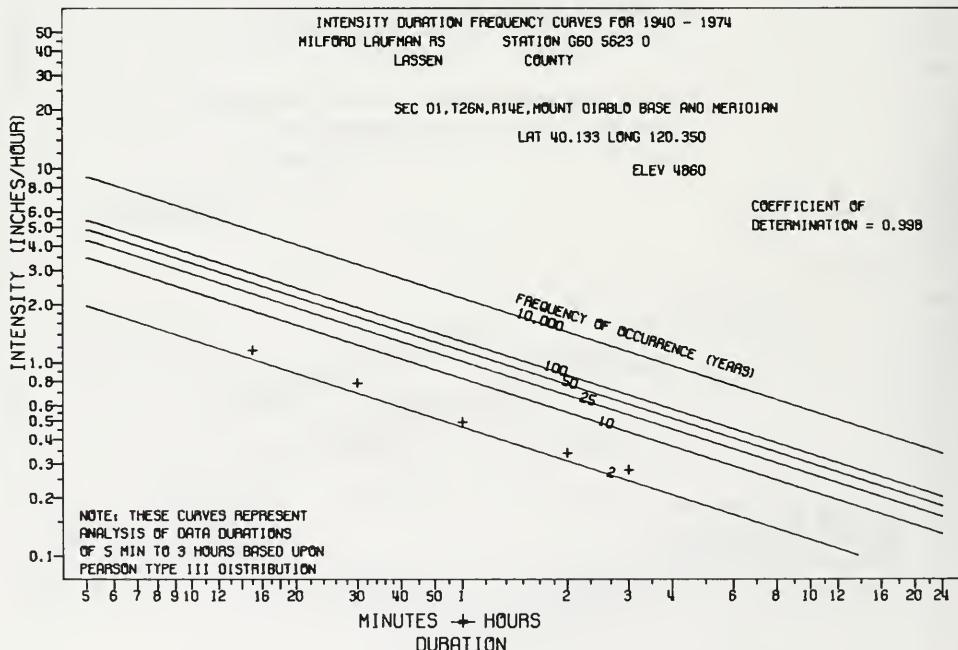
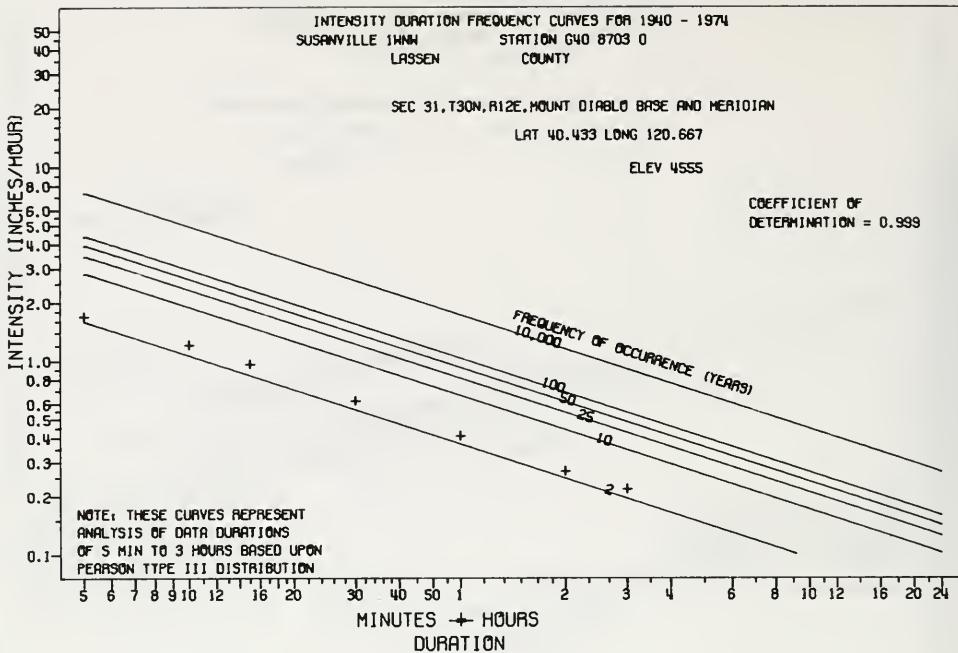
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1974
 TERMO STATION C20 8873 0
 LASSEN COUNTY

SEC 25, T35N, R13E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.867 LONG 120.450

ELEV 5300

COEFFICIENT OF
 DETERMINATION = 1.000





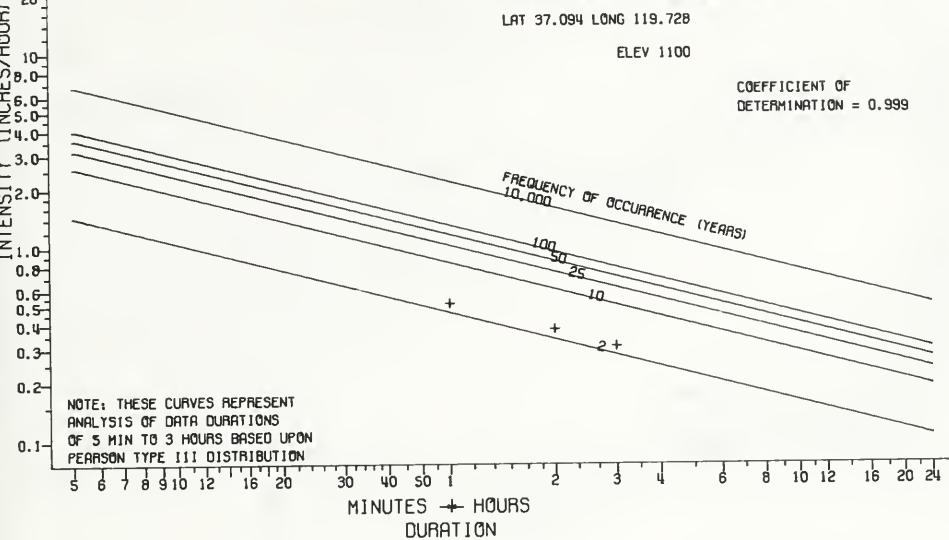
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
SAN JOAQUIN EXP RANGE STATION 870 7817 0
MADERA COUNTY

SEC 06, T10S, R21E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.094 LONG 119.728

ELEV 1100

COEFFICIENT OF
DETERMINATION = 0.999



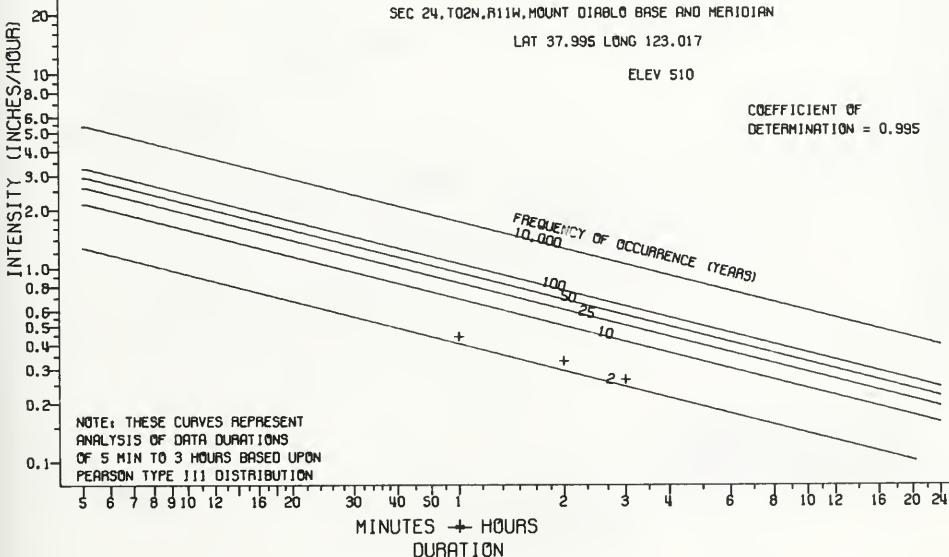
INTENSITY DURATION FREQUENCY CURVES FOR 1906 - 1926
POINT REYES STATION E10 7027 0
MARIN COUNTY

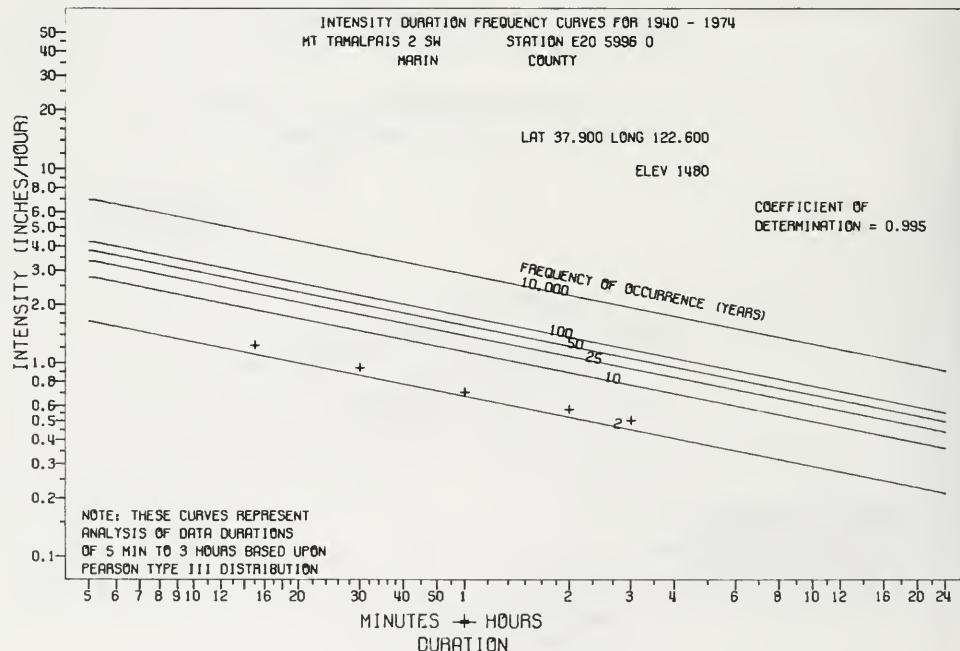
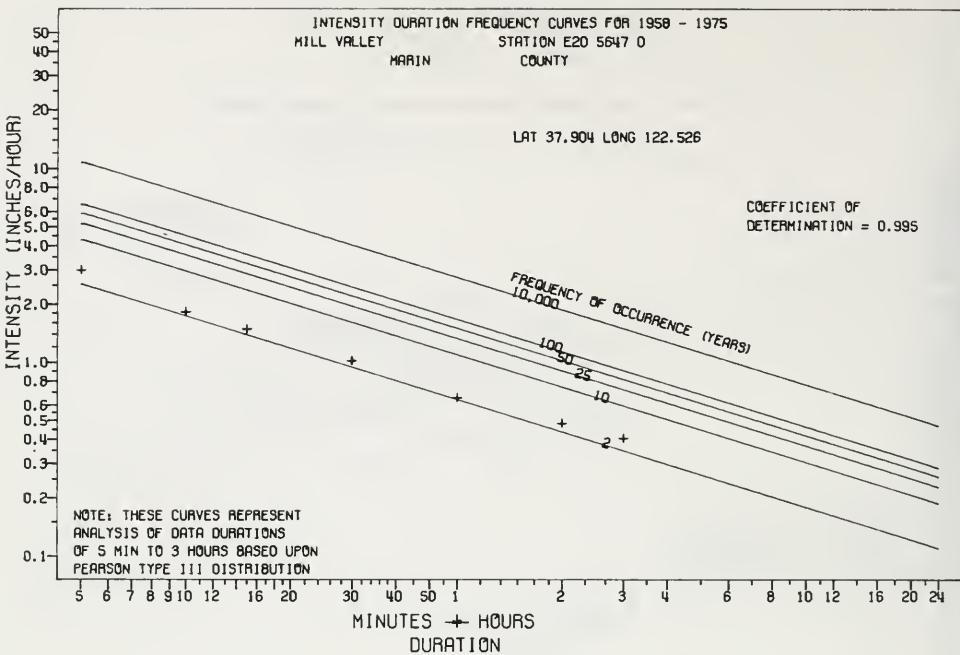
SEC 24, T02N, R11W, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.995 LONG 123.017

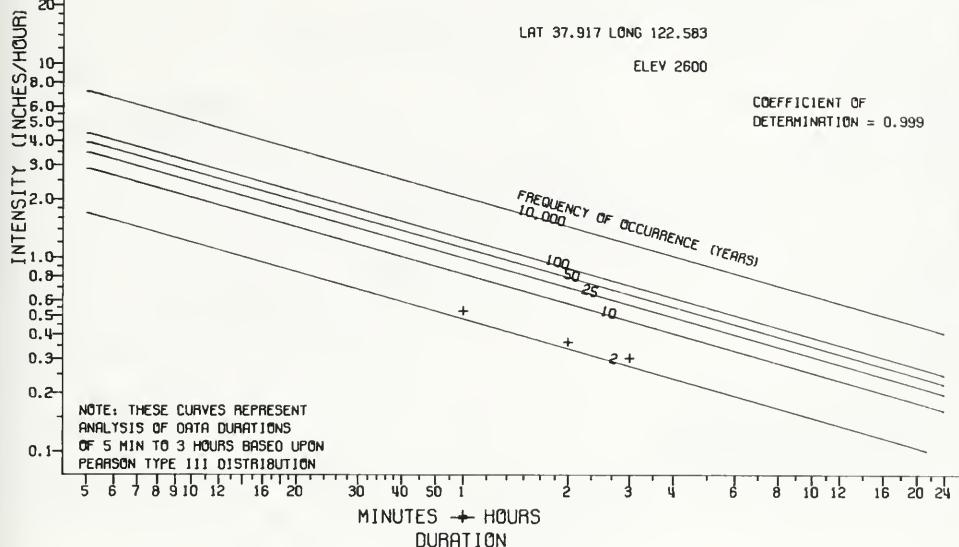
ELEV 510

COEFFICIENT OF
DETERMINATION = 0.995

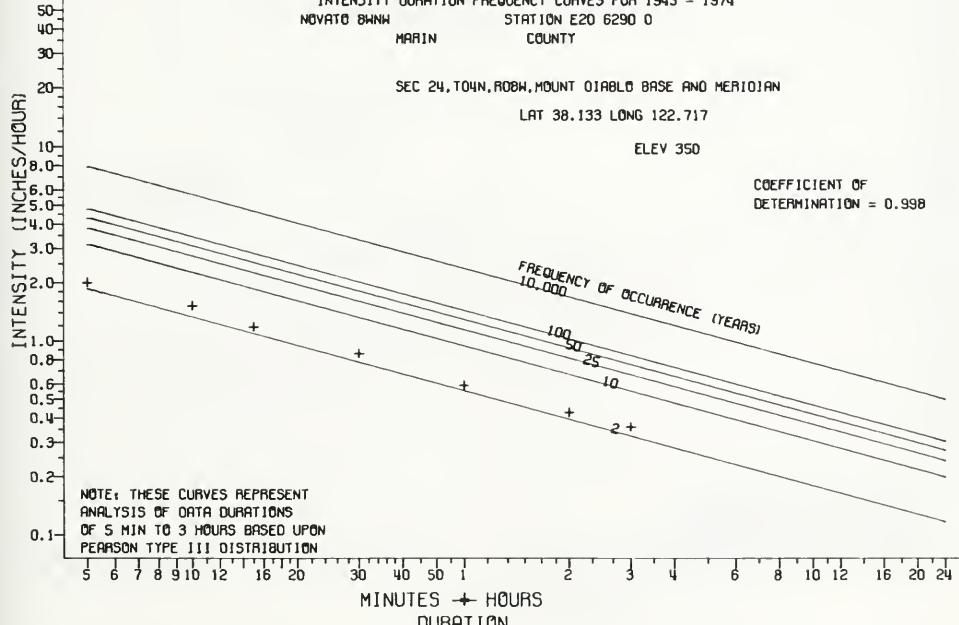


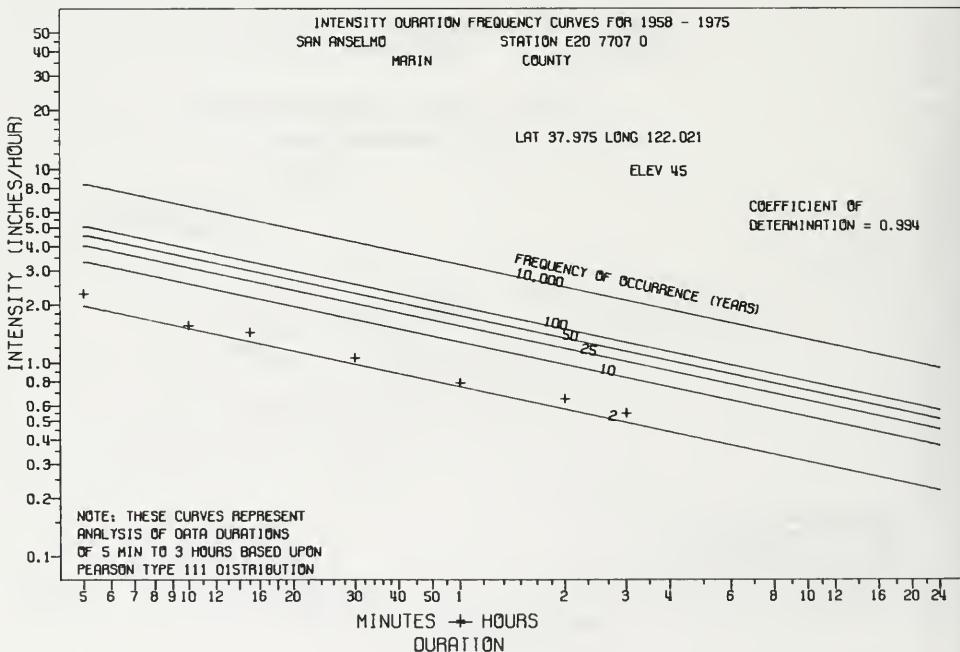
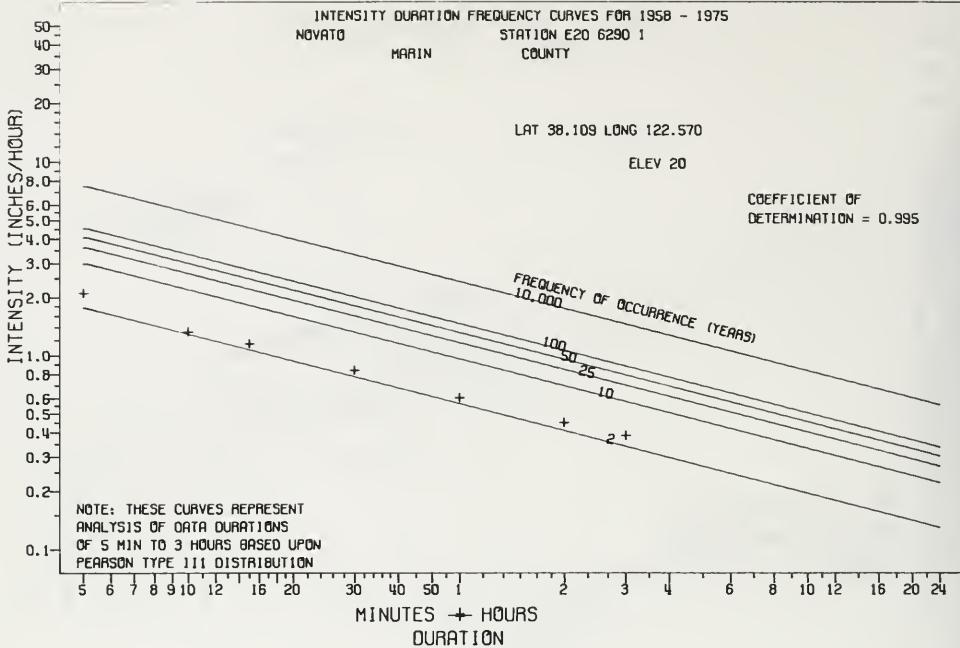


INTENSITY DURATION FREQUENCY CURVES FOR 1905 - 1920
 MT TAMALPAIS STATION E20 5998 0
 MARIN COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1943 - 1974
 NOVATO BHNW STATION E20 6290 0
 MARIN COUNTY



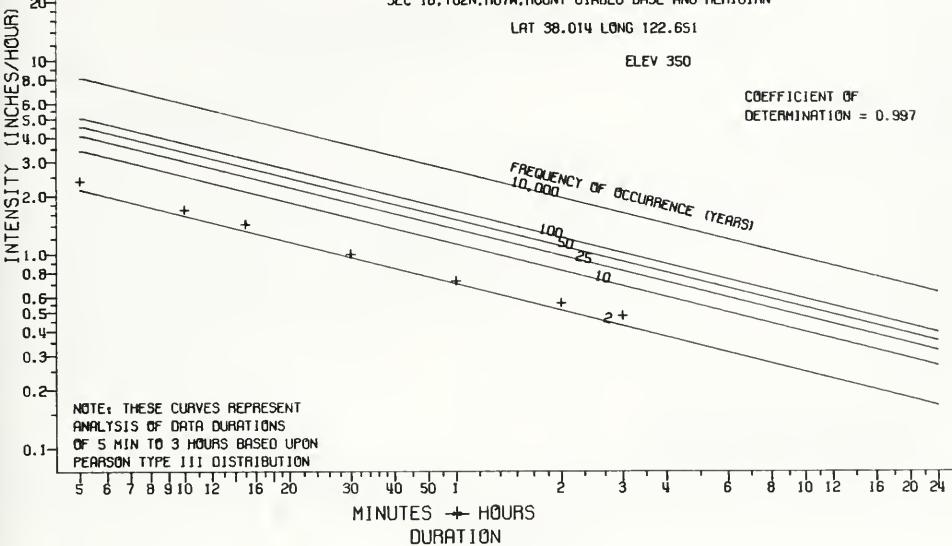


INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1973
 WOODACRE STATION F90 9770 21
 MARIN COUNTY

SEC 16, T02N, R07W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 38.014 LONG 122.651

ELEV 350

COEFFICIENT OF
 DETERMINATION = 0.997

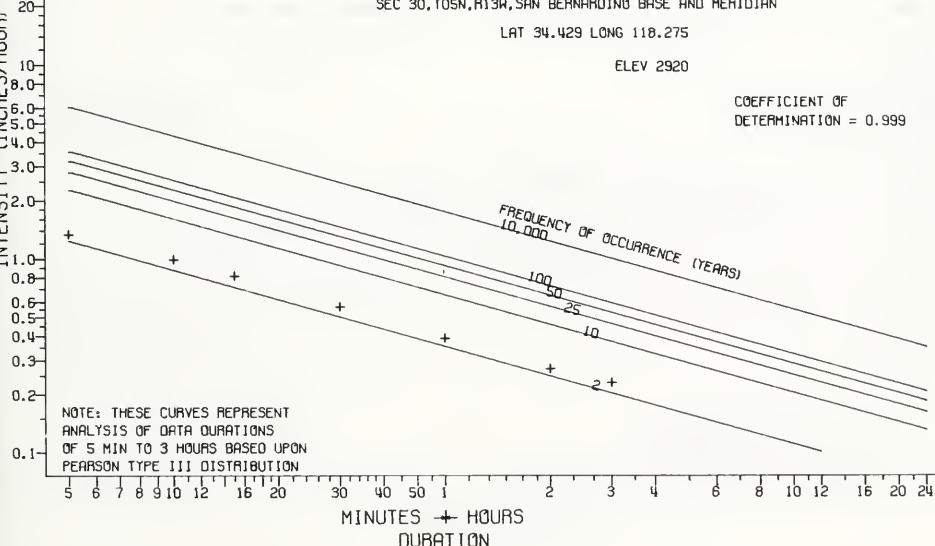


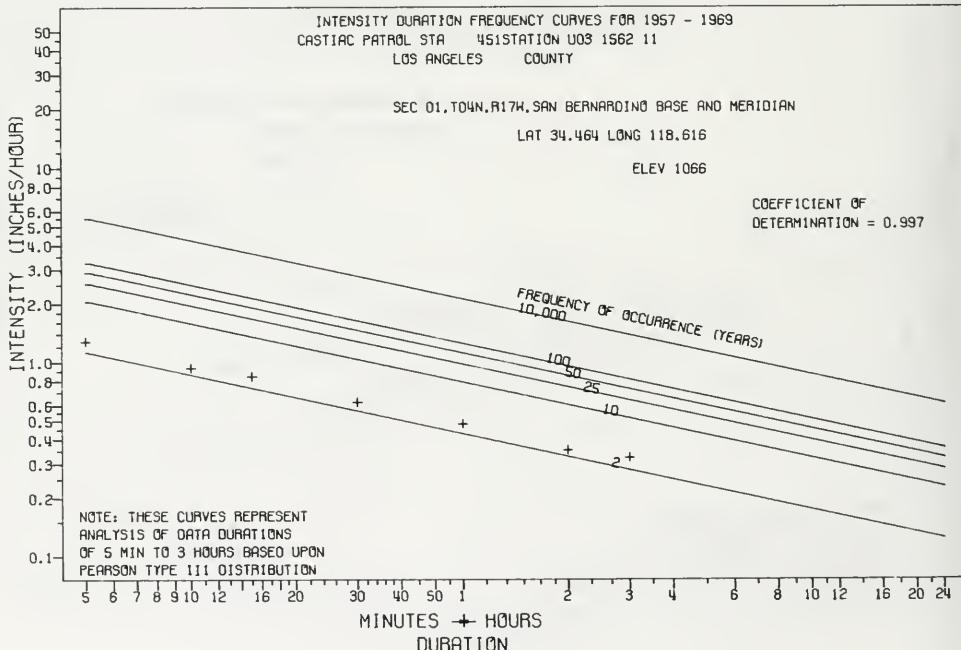
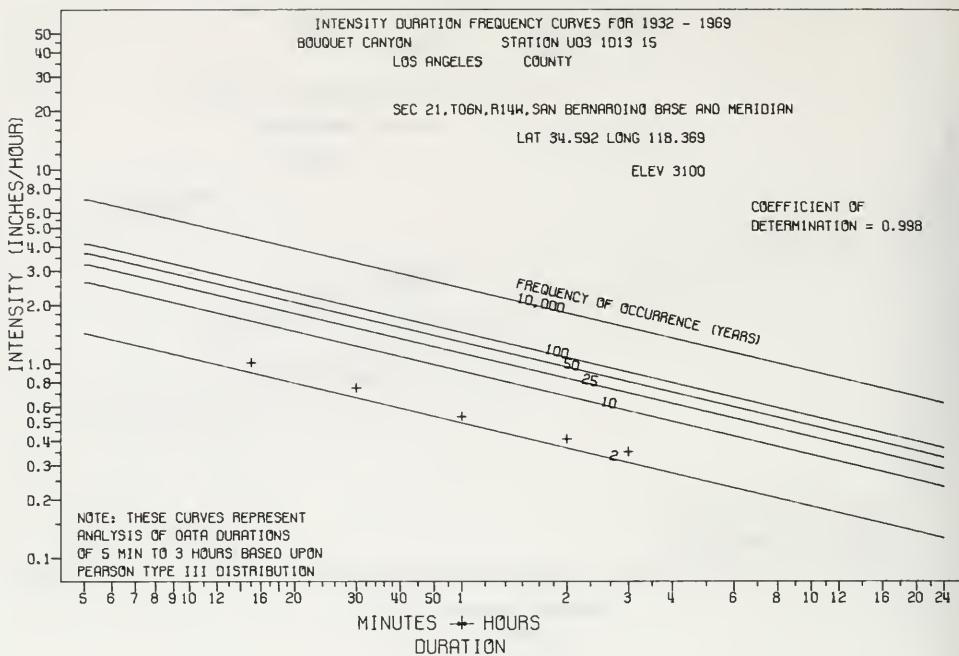
INTENSITY DURATION FREQUENCY CURVES FOR 1931 - 1970
 RACTON ESCONDIDO STATION U03 14 0
 LOS ANGELES COUNTY

SEC 30, T05N, R13W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.429 LONG 118.275

ELEV 2920

COEFFICIENT OF
 DETERMINATION = 0.999



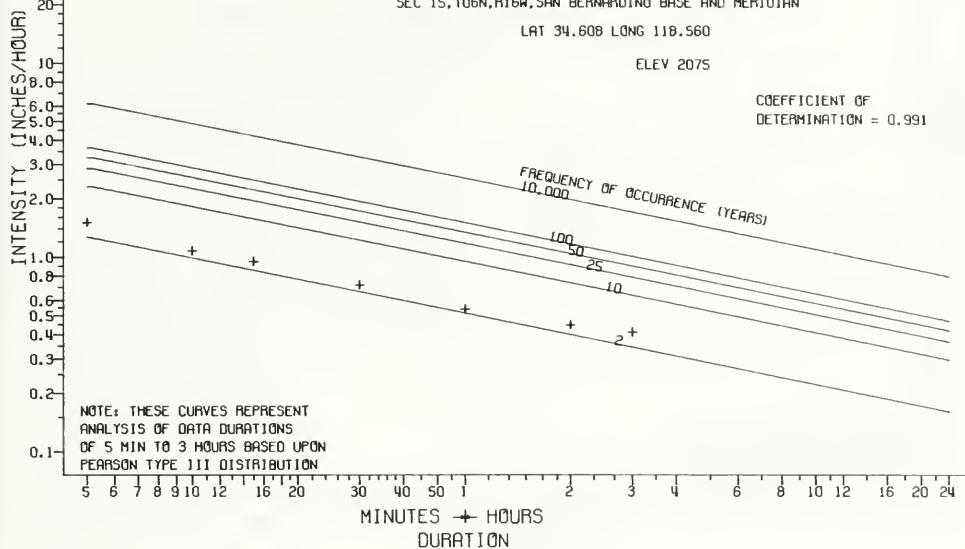


INTENSITY DURATION FREQUENCY CURVES FOR 1956 - 1971
ELIZABETH LAKE 128STATION U03 2735 0
LOS ANGELES COUNTY

SEC 15, T06N, R16W, SAN BERNARDINO BASE AND MERIDIAN
LAT 34.608 LONG 118.560

ELEV 2075

COEFFICIENT OF
DETERMINATION = 0.991

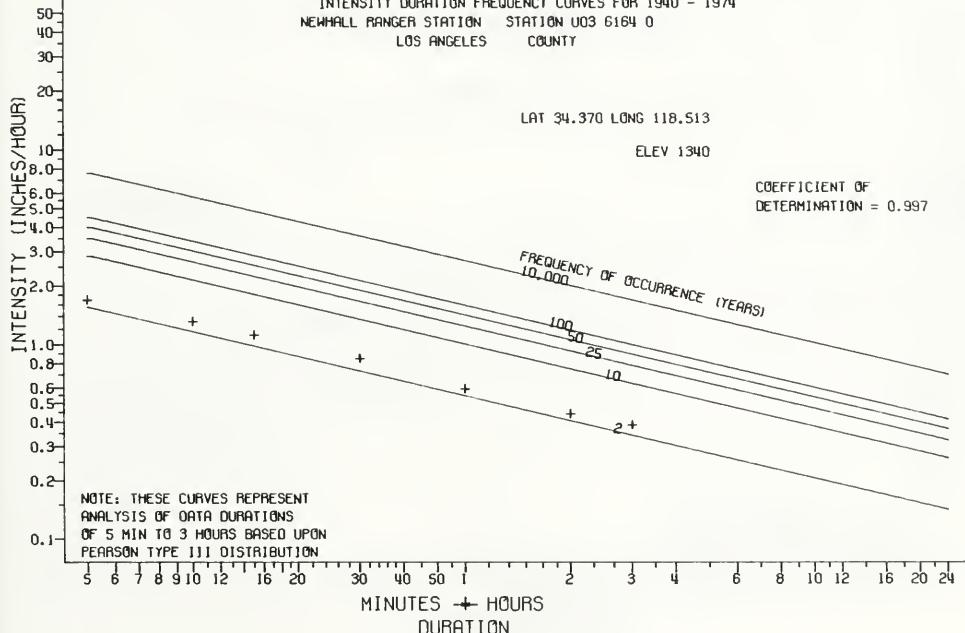


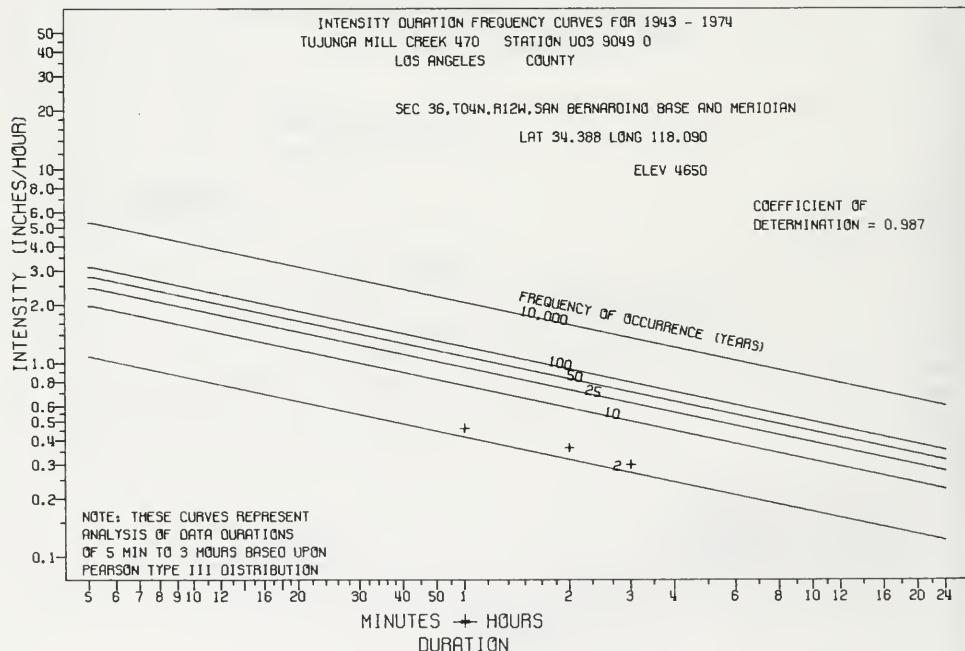
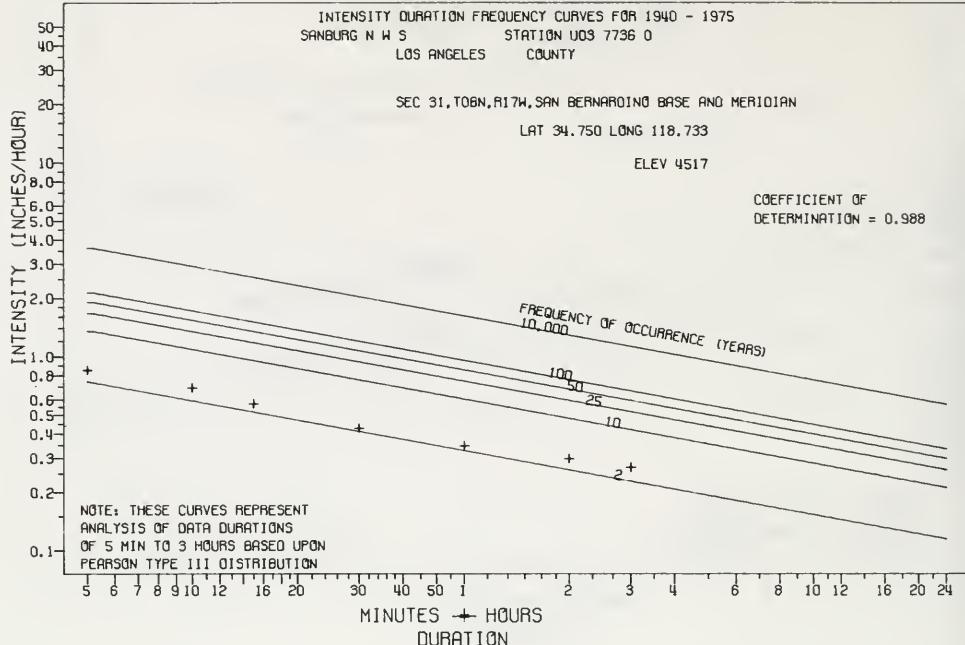
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
NEWHALL RANGER STATION STATION U03 6164 0
LOS ANGELES COUNTY

LAT 34.370 LONG 118.513

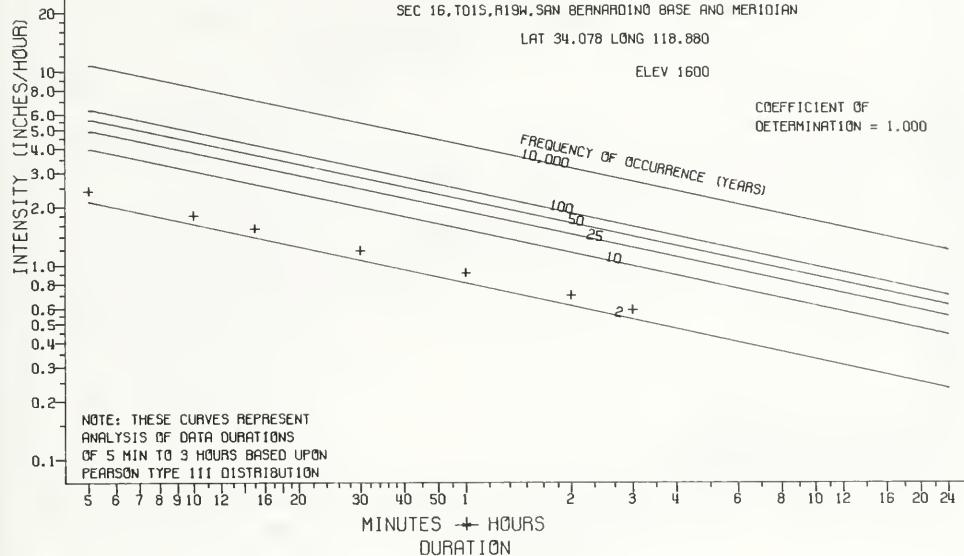
ELEV 1340

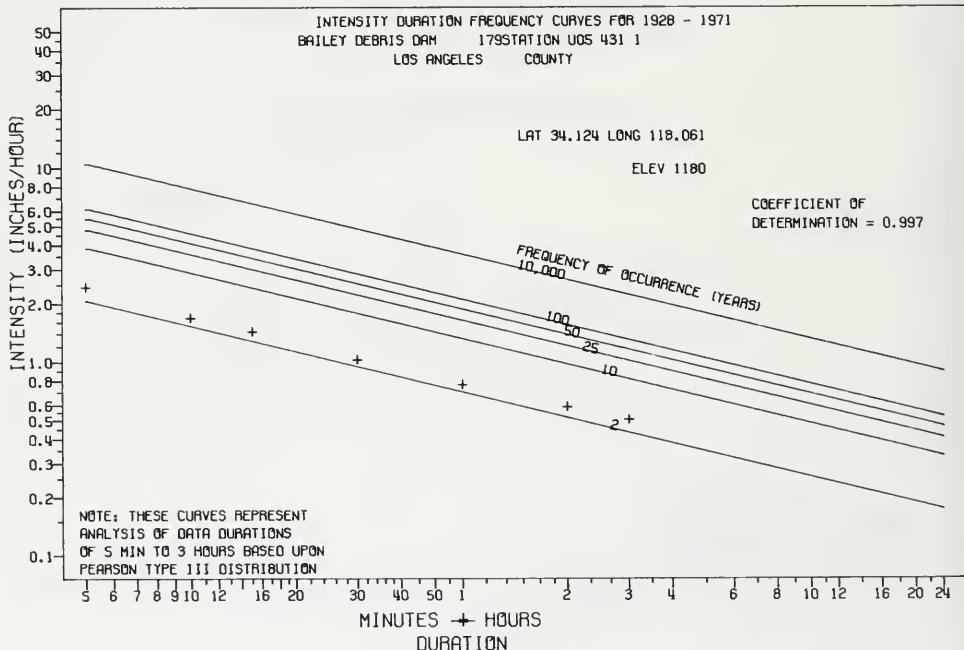
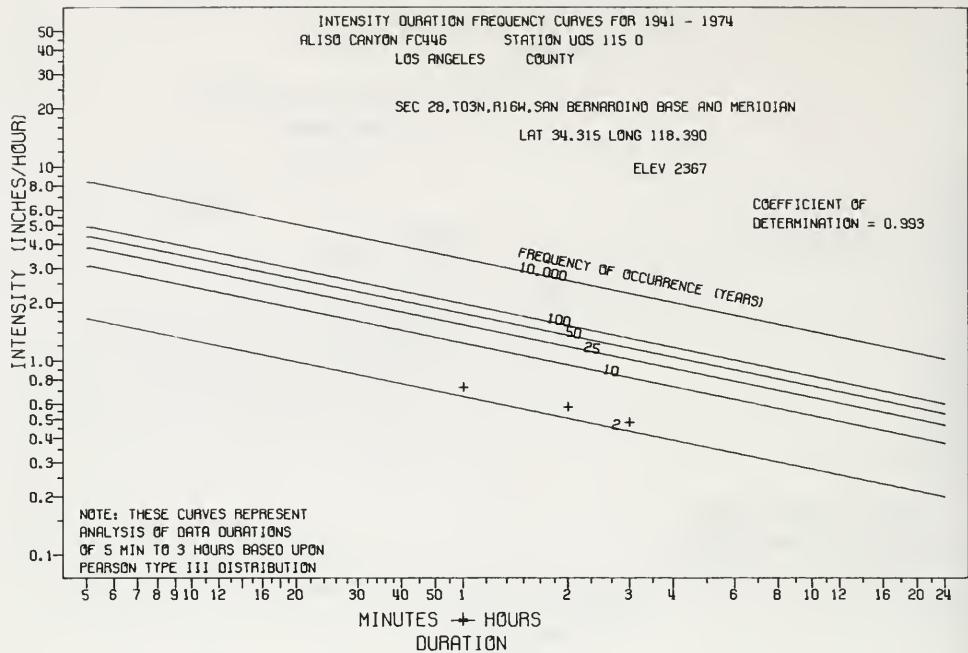
COEFFICIENT OF
DETERMINATION = 0.997





INTENSITY DURATION FREQUENCY CURVES FOR 1935 - 1974
 LECHUZA PATROL STA 352STATION UDV 4867 0
 LOS ANGELES COUNTY





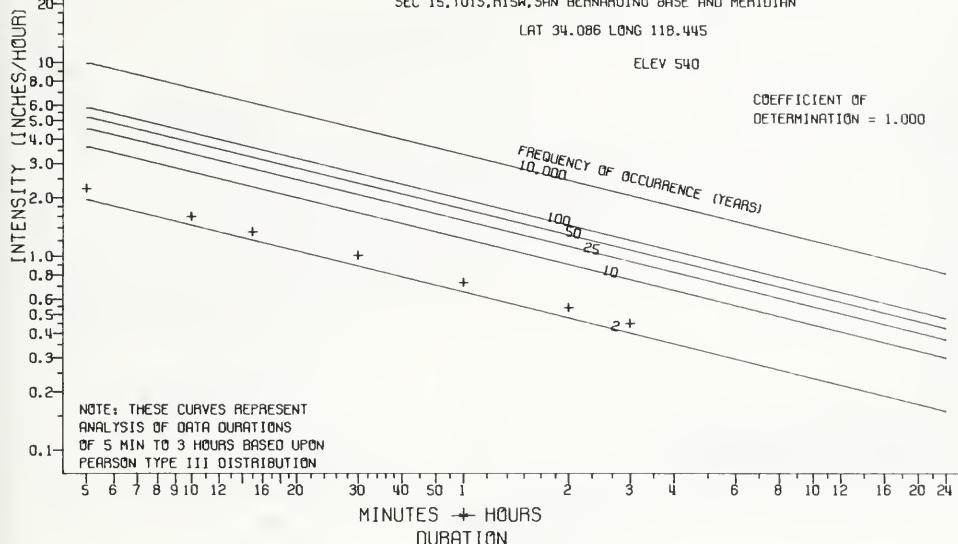
INTENSITY DURATION FREQUENCY CURVES FOR 1929 - 1972
BEL AIR HOTEL STATION UOS 619 0
LOS ANGELES COUNTY

SEC 15, T01S, R15W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.086 LONG 118.445

ELEV 540

COEFFICIENT OF
DETERMINATION = 1.000

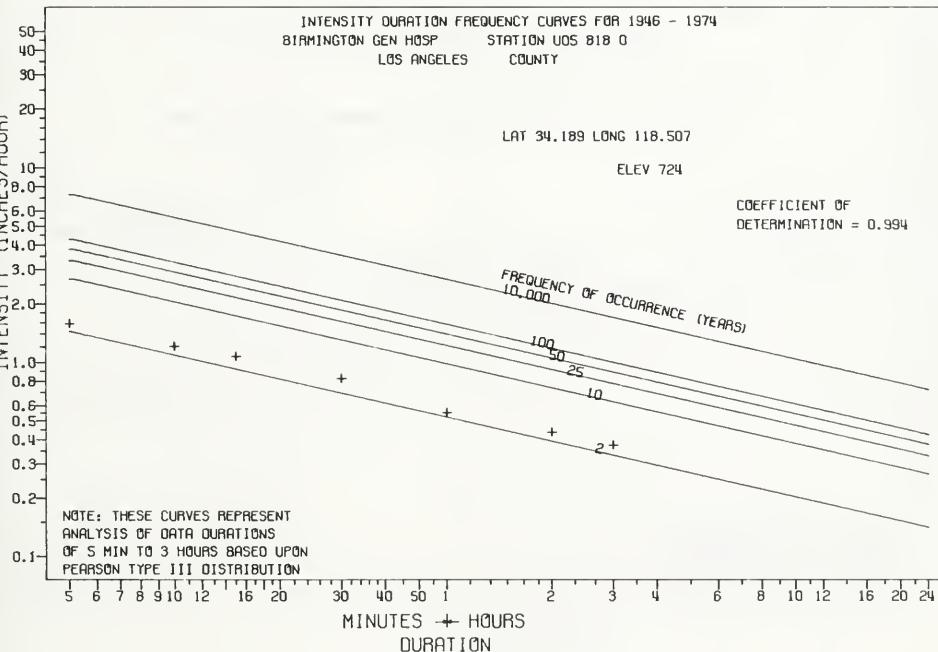


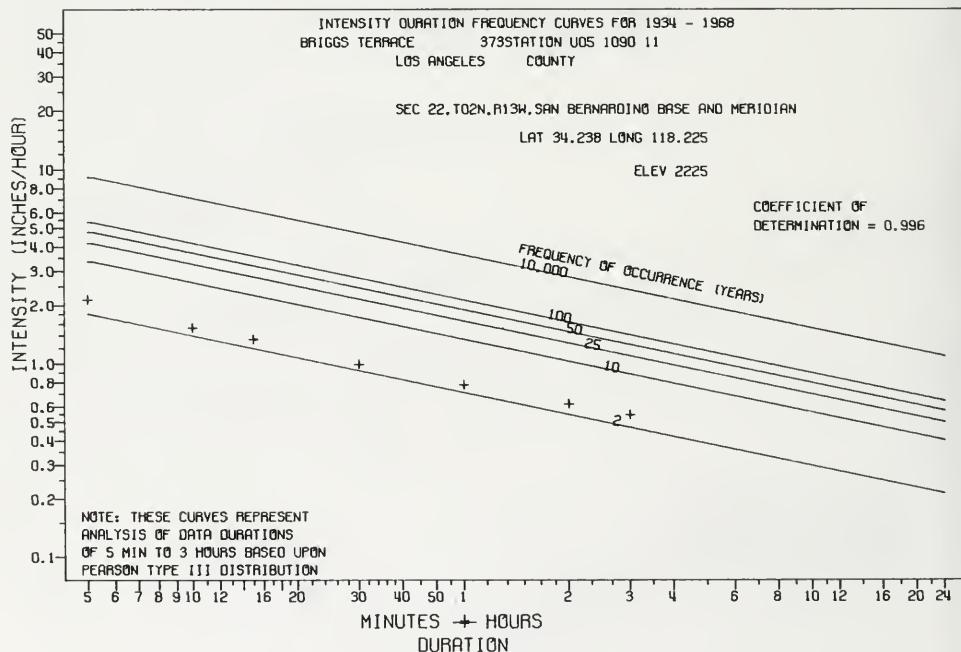
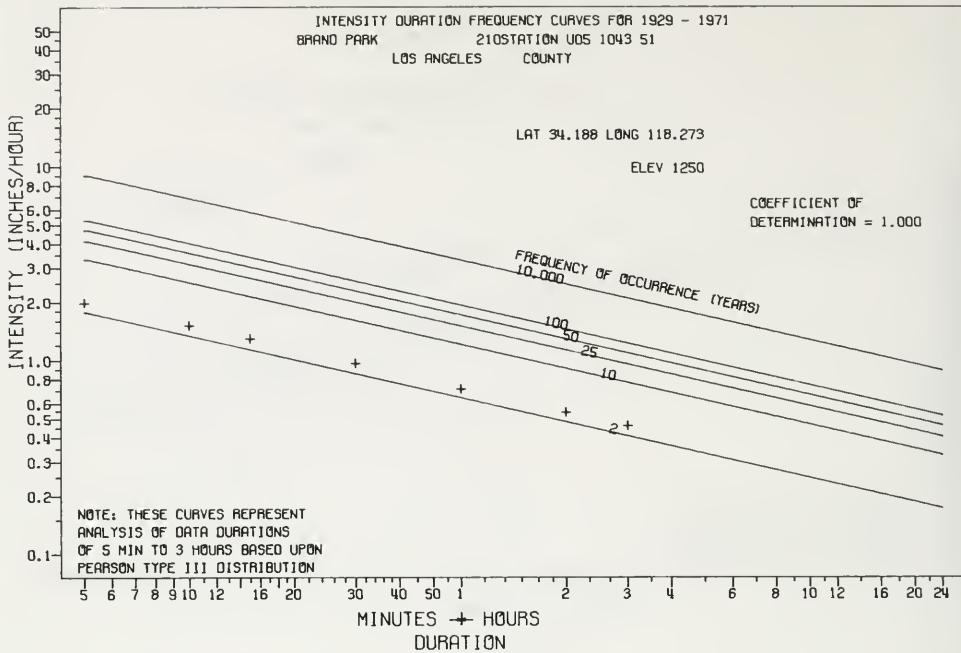
INTENSITY DURATION FREQUENCY CURVES FOR 1946 - 1974
BIRMINGHAM GEN HOSP STATION UOS 818 0
LOS ANGELES COUNTY

LAT 34.189 LONG 118.507

ELEV 724

COEFFICIENT OF
DETERMINATION = 0.994



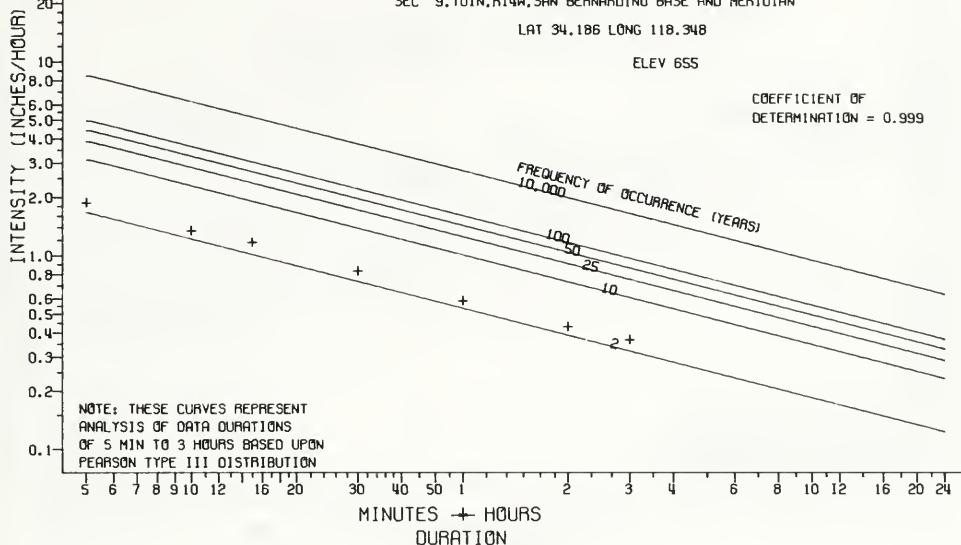


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 BURBANK VALLEY PUMP STATION UOS 1194 0
 LOS ANGELES COUNTY

SEC 9, T01N, R14W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.186 LONG 118.348

ELEV 655

COEFFICIENT OF
 DETERMINATION = 0.999

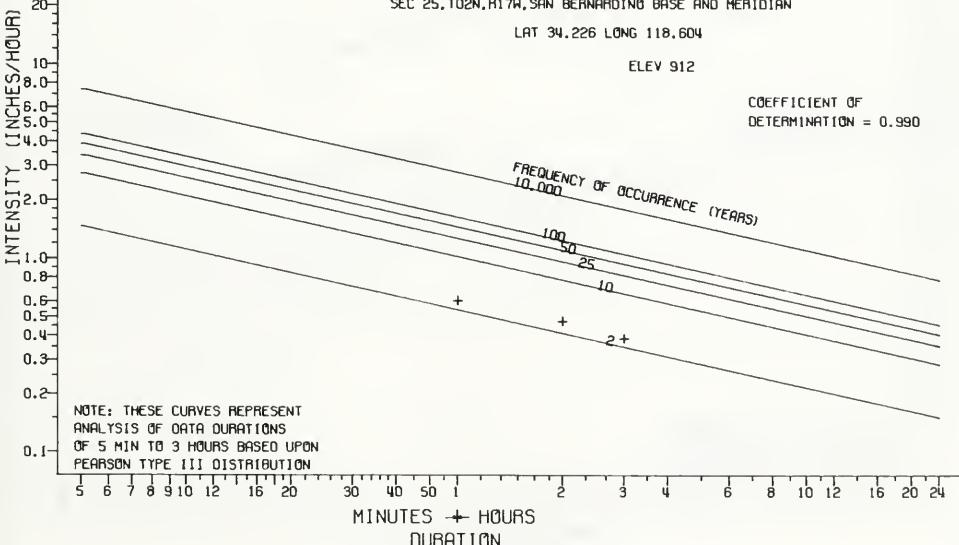


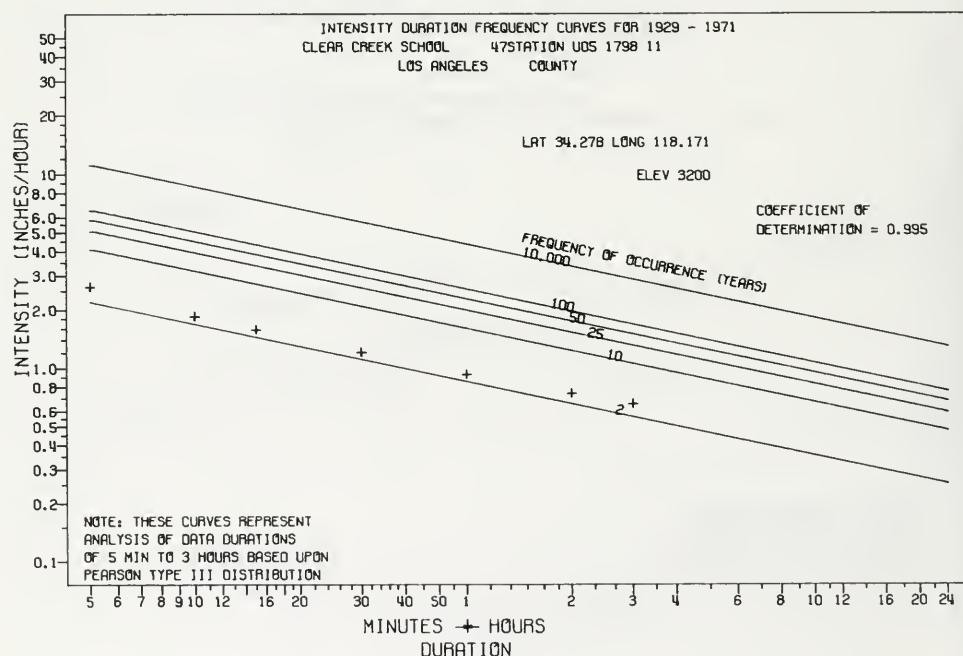
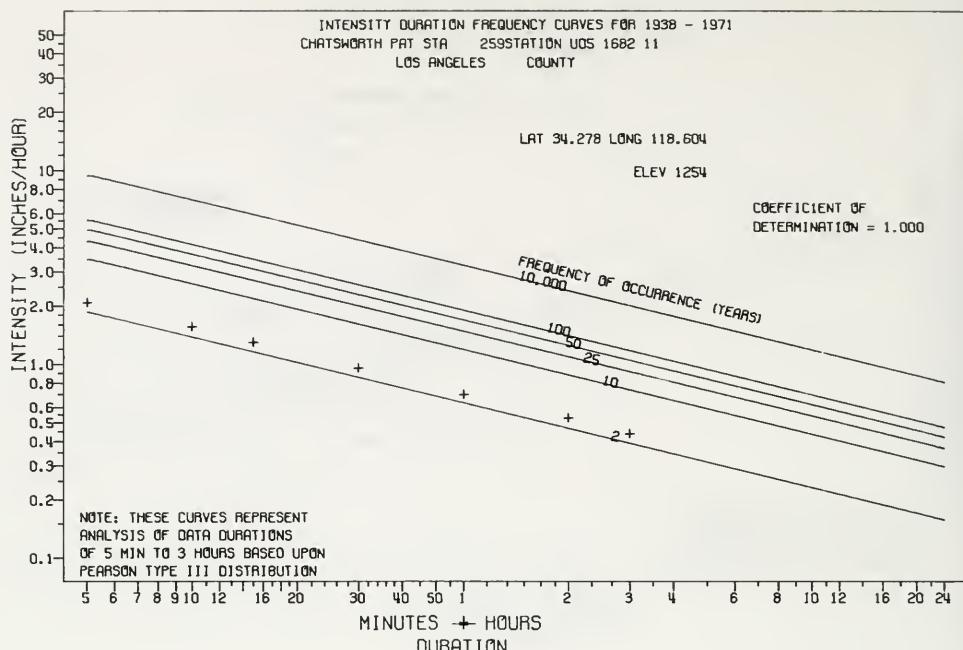
INTENSITY DURATION FREQUENCY CURVES FOR 1946 - 1974
 CHATSWORTH RESERVOIR 23 STATION UOS 1682 0
 LOS ANGELES COUNTY

SEC 25, T02N, R17W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.226 LONG 118.604

ELEV 912

COEFFICIENT OF
 DETERMINATION = 0.990



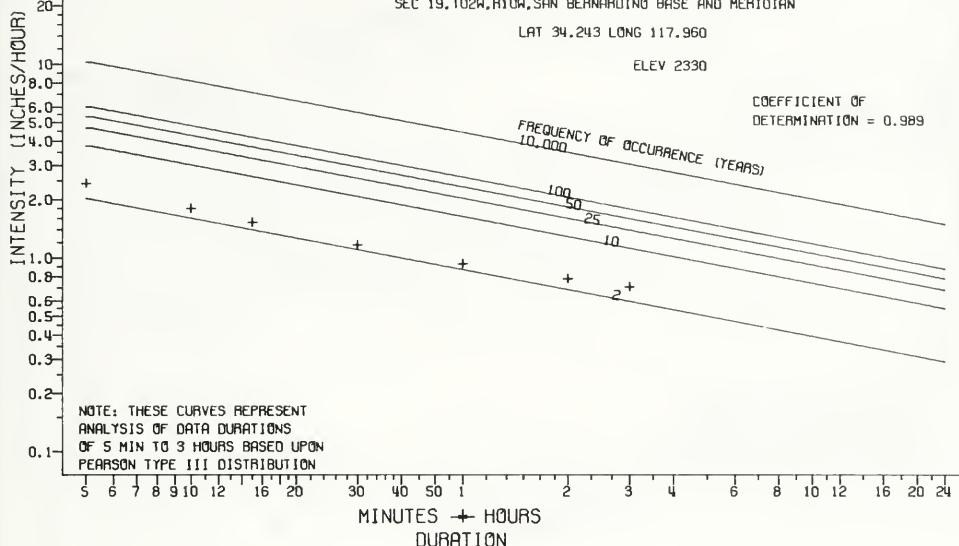


INTENSITY DURATION FREQUENCY CURVES FOR 1933 - 1968
 COGSWELL DAM 334STATION UOS 1883 0
 LOS ANGELES COUNTY

SEC 19, T02W, R10W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.243 LONG 117.960

ELEV 2330

COEFFICIENT OF
 DETERMINATION = 0.989

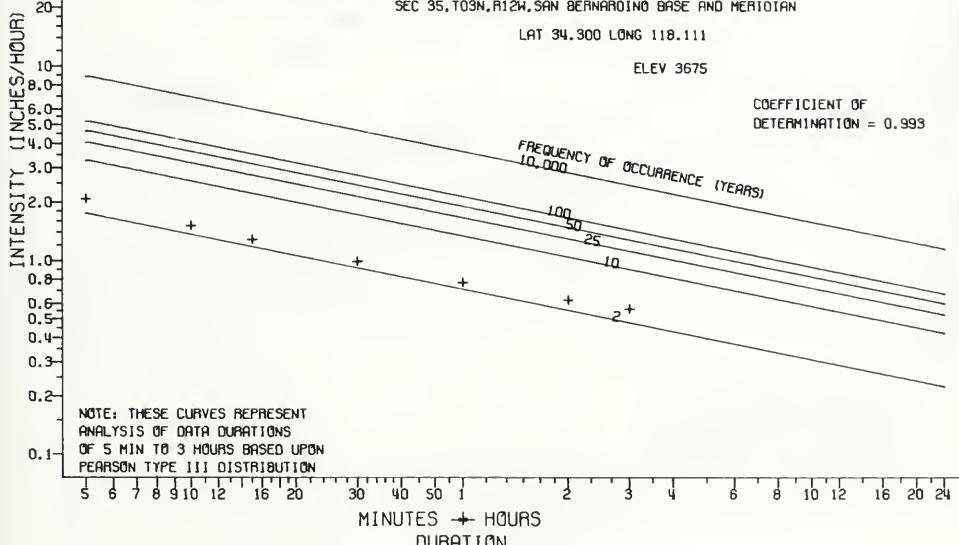


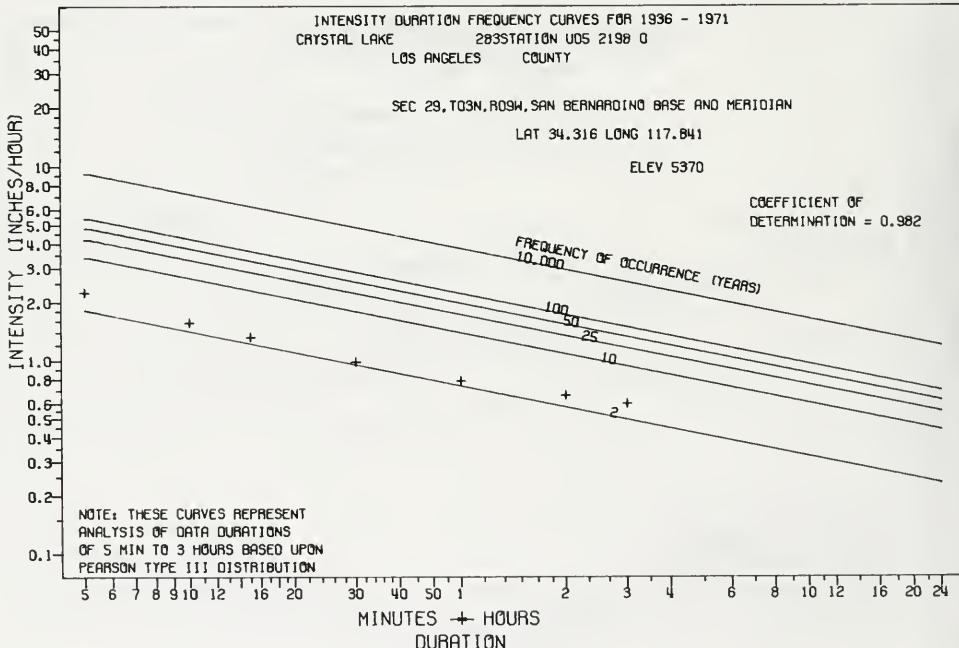
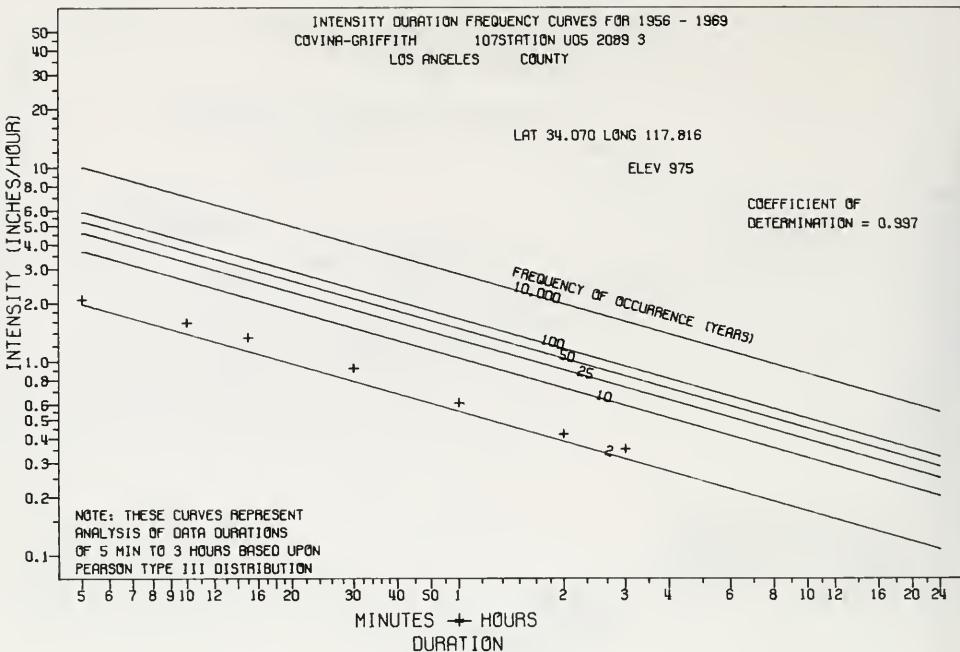
INTENSITY DURATION FREQUENCY CURVES FOR 1927 - 1971
 COLBYS 534STATION UOS 1896 0
 LOS ANGELES COUNTY

SEC 35, T03N, R12W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.300 LONG 118.111

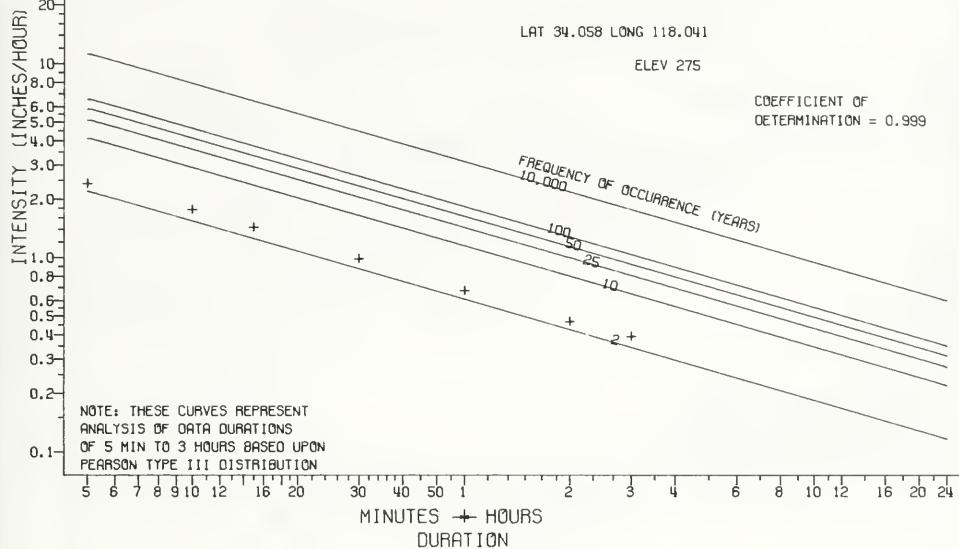
ELEV 3675

COEFFICIENT OF
 DETERMINATION = 0.993

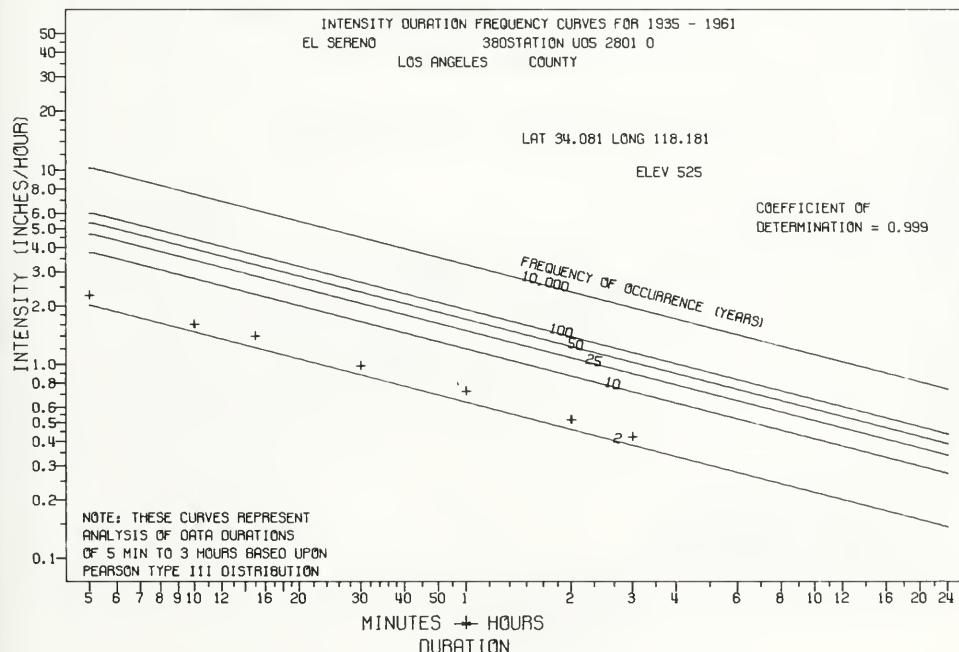


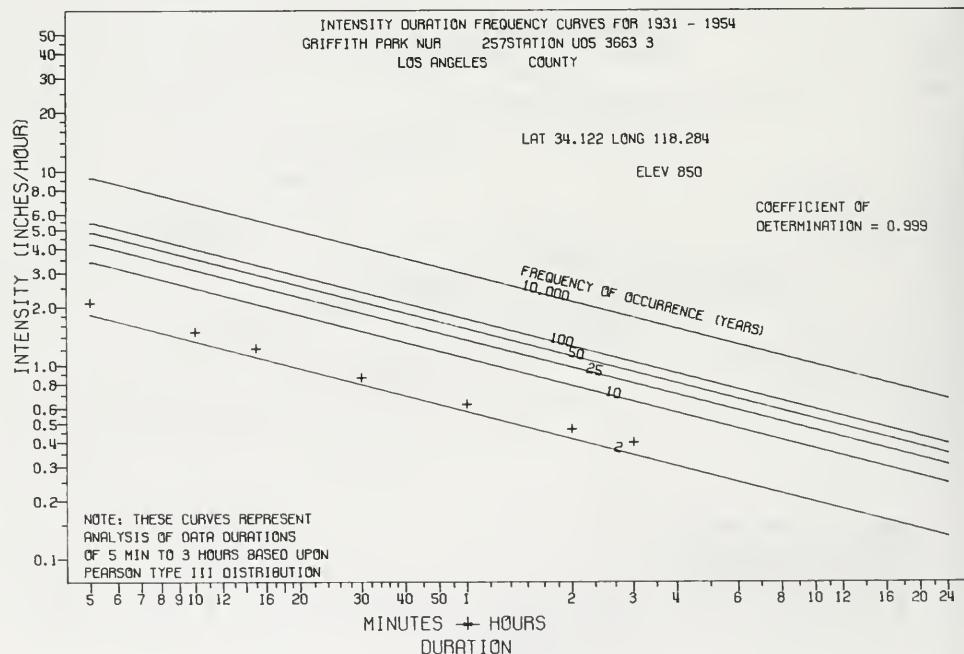
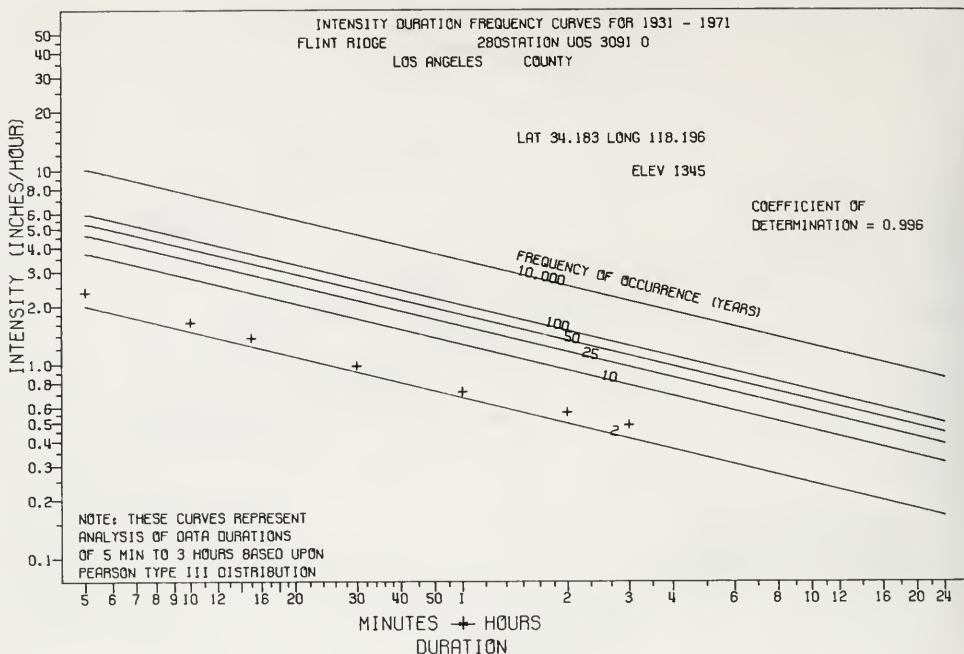


INTENSITY DURATION FREQUENCY CURVES FOR 1939 - 1971
 EL MONTE FIRE STATION 108 STATION UOS 2779 1
 LOS ANGELES COUNTY

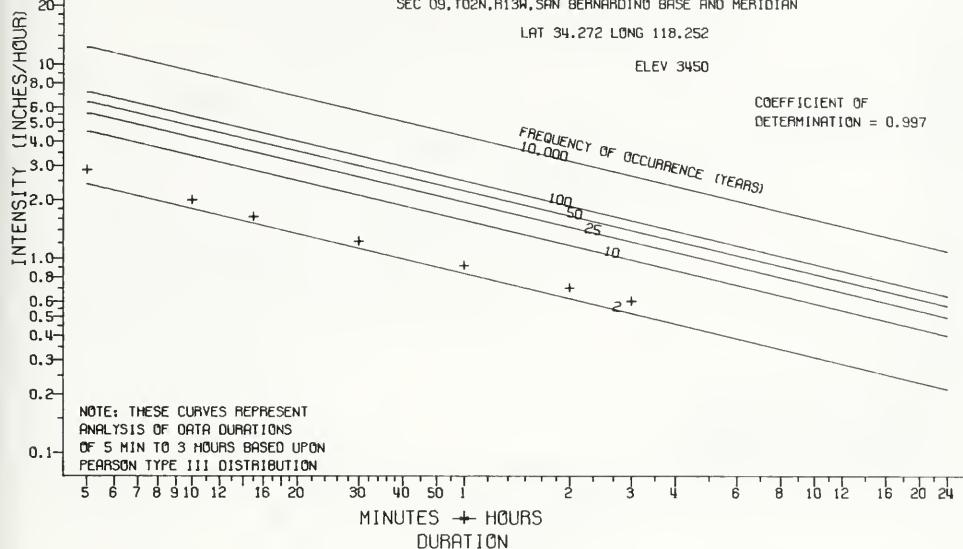


INTENSITY DURATION FREQUENCY CURVES FOR 1935 - 1961
 EL SERENO 380 STATION UOS 2801 0
 LOS ANGELES COUNTY

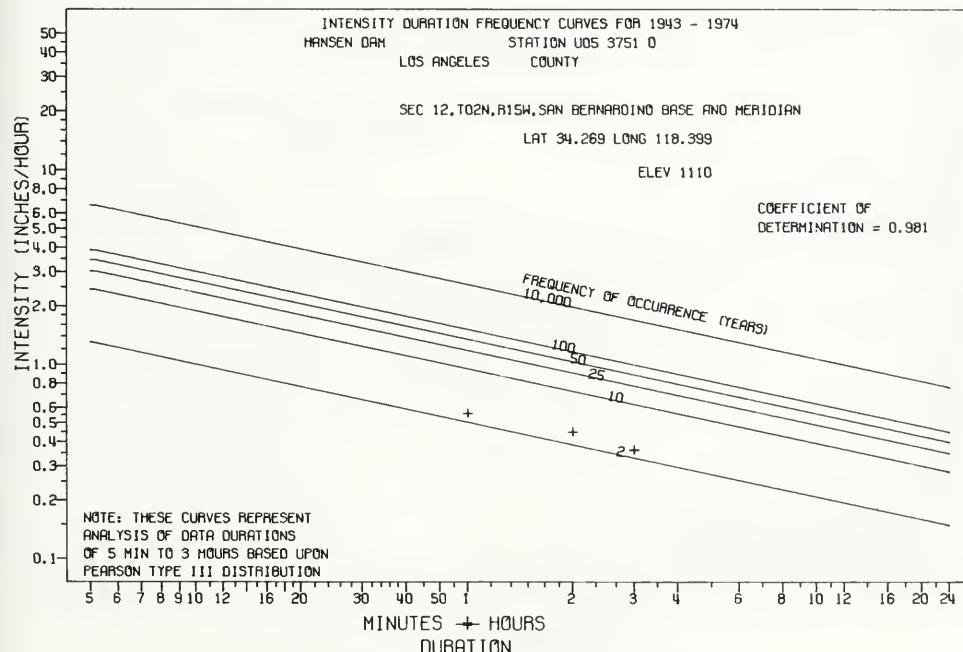


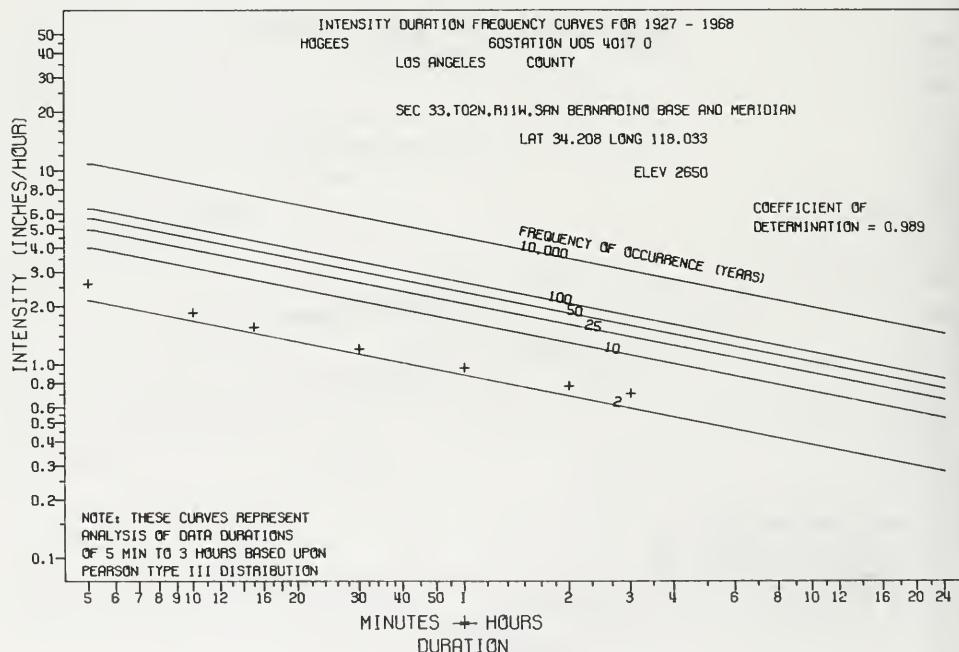
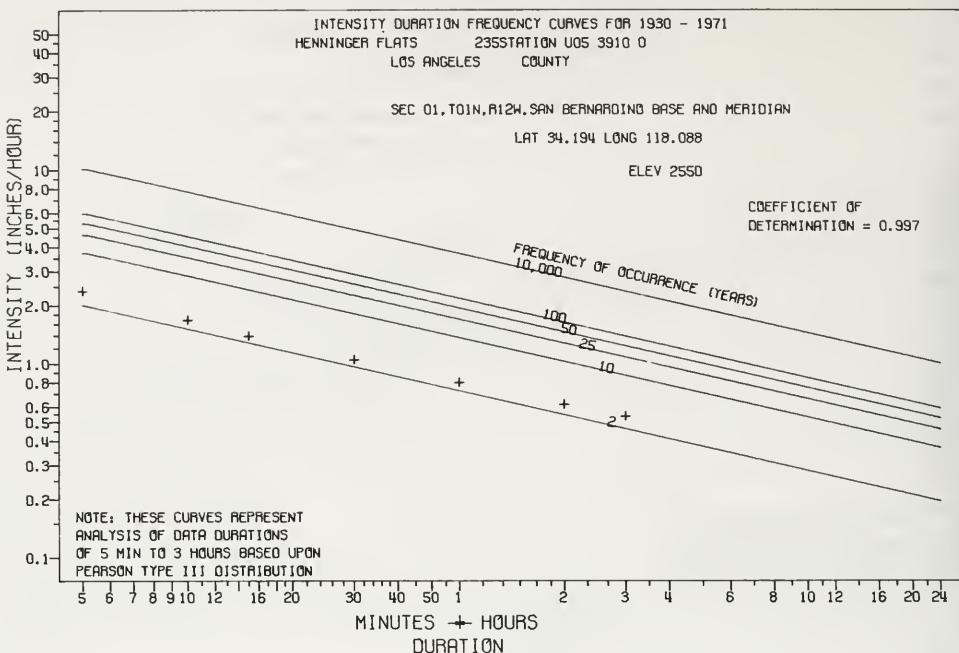


INTENSITY DURATION FREQUENCY CURVES FOR 1933 - 1968
HAINES CANYON UPPER 3675 STATION UOS 3704 0
LOS ANGELES COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1943 - 1974
HANSEN DAM STATION UOS 3751 0
LOS ANGELES COUNTY



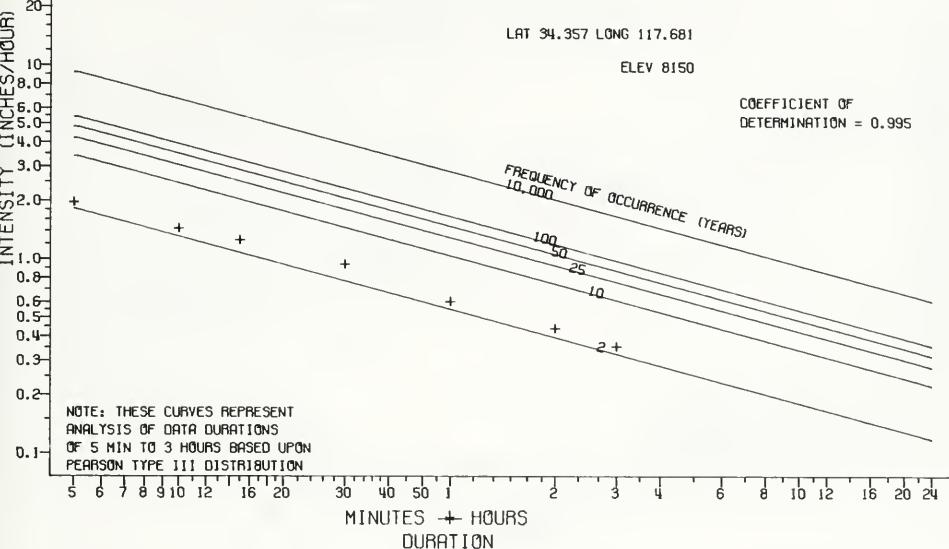


INTENSITY DURATION FREQUENCY CURVES FOR 1958 - 1974
 HOLIDAY HILL STATION UOS 4021 15
 LOS ANGELES COUNTY

LAT 34.357 LONG 117.681

ELEV 8150

COEFFICIENT OF
 DETERMINATION = 0.995

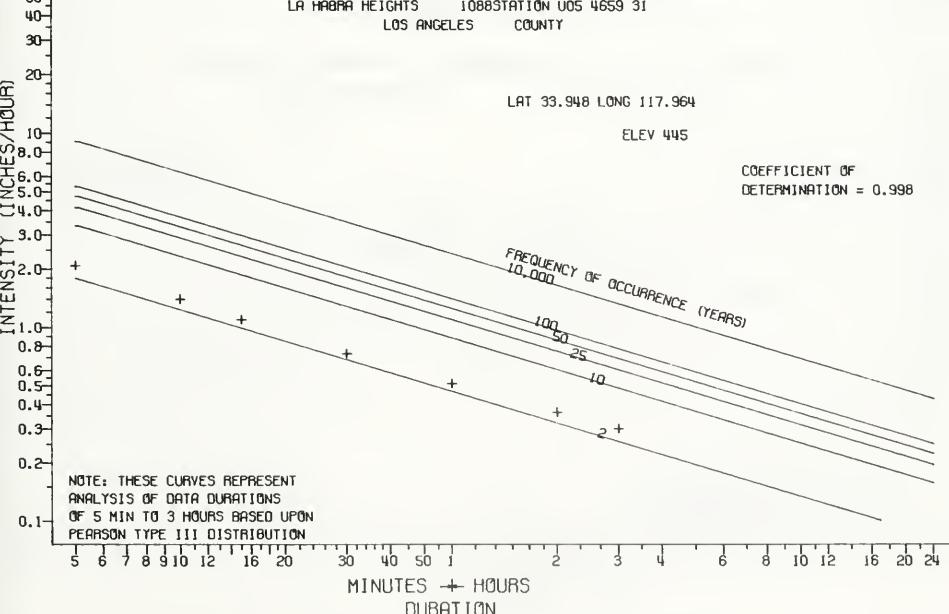


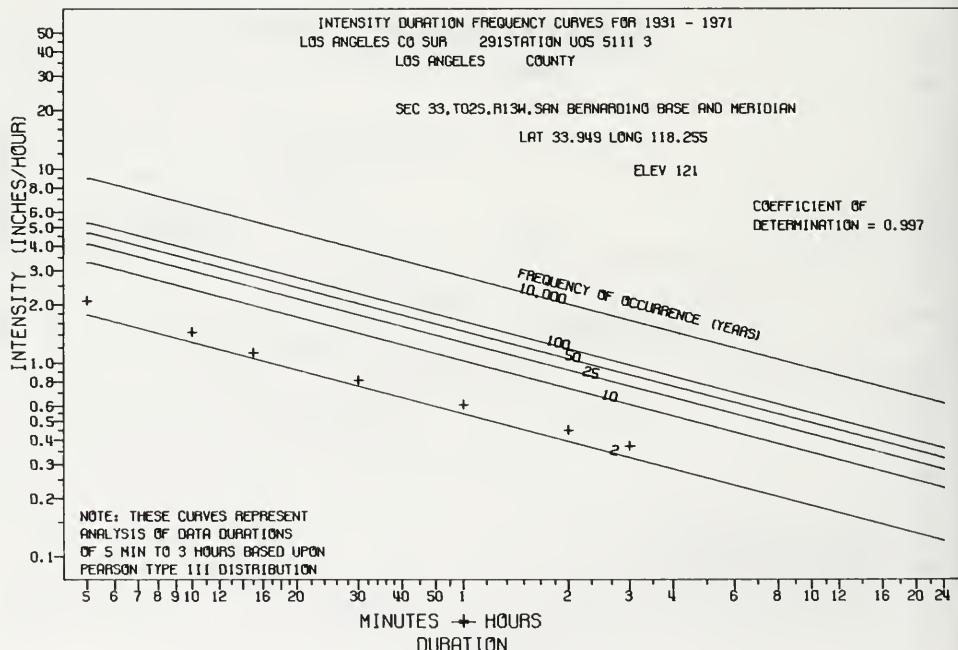
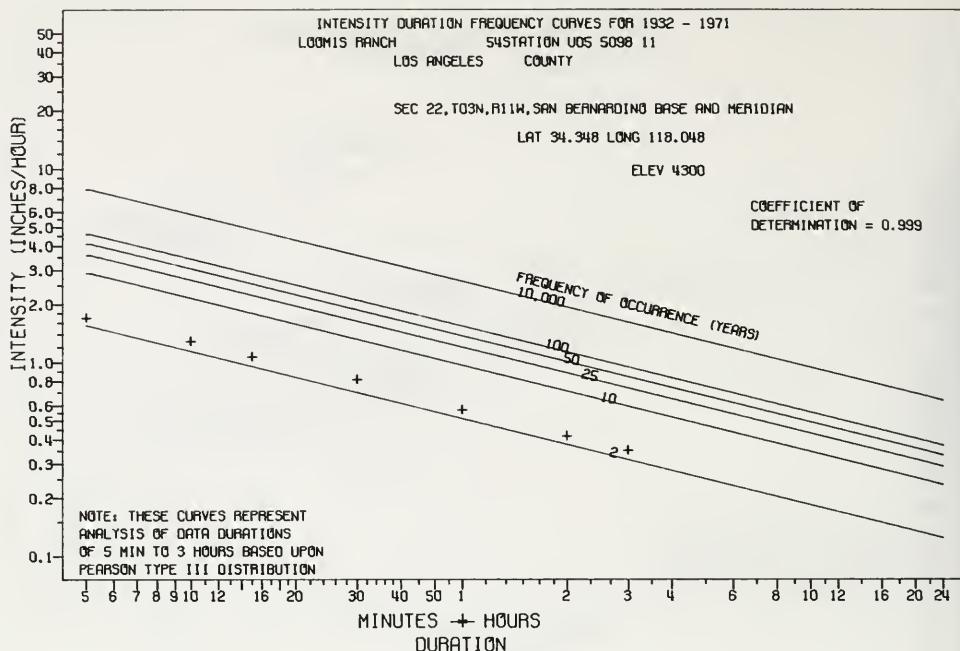
INTENSITY DURATION FREQUENCY CURVES FOR 1958 - 1969
 LA HABRA HEIGHTS STATION UOS 4659 31
 LOS ANGELES COUNTY

LAT 33.948 LONG 117.964

ELEV 445

COEFFICIENT OF
 DETERMINATION = 0.998





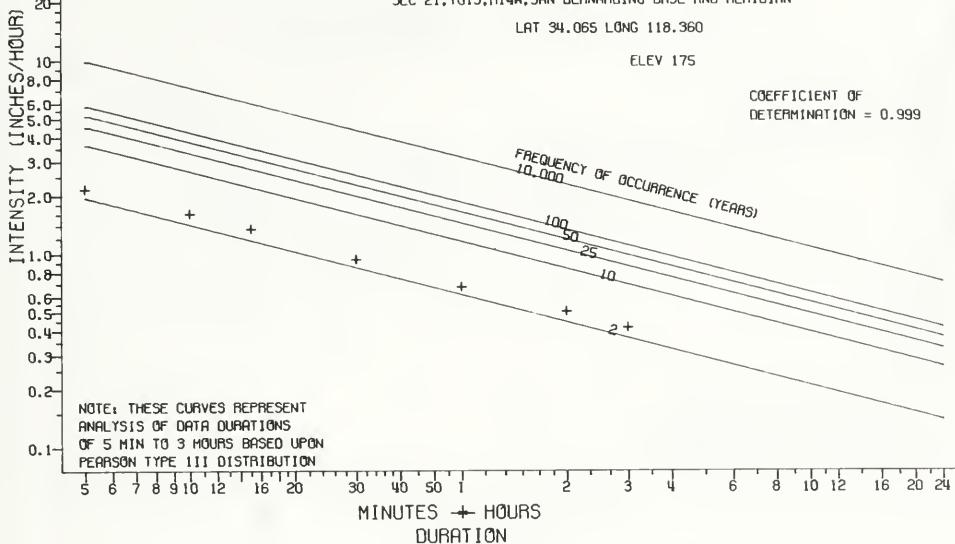
INTENSITY DURATION FREQUENCY CURVES FOR 1930 - 1971
LOS ANGELES HANCOCK 213STATION UOS 5111 17
LOS ANGELES COUNTY

SEC 21, T01S, R14W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.065 LONG 118.360

ELEV 175

COEFFICIENT OF
DETERMINATION = 0.999



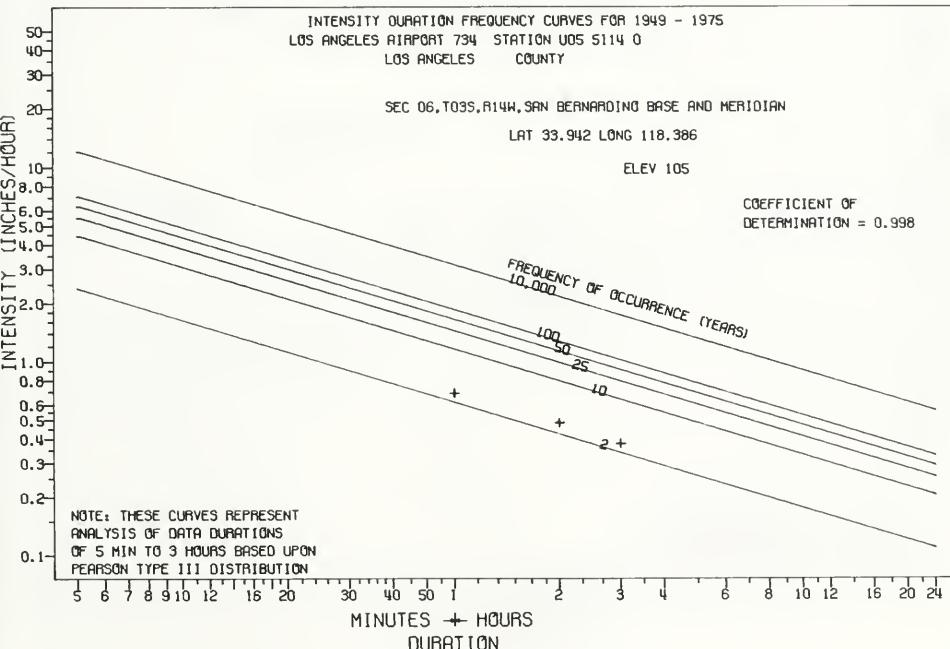
INTENSITY DURATION FREQUENCY CURVES FOR 1949 - 1975
LOS ANGELES AIRPORT 734 STATION UOS 5114 0
LOS ANGELES COUNTY

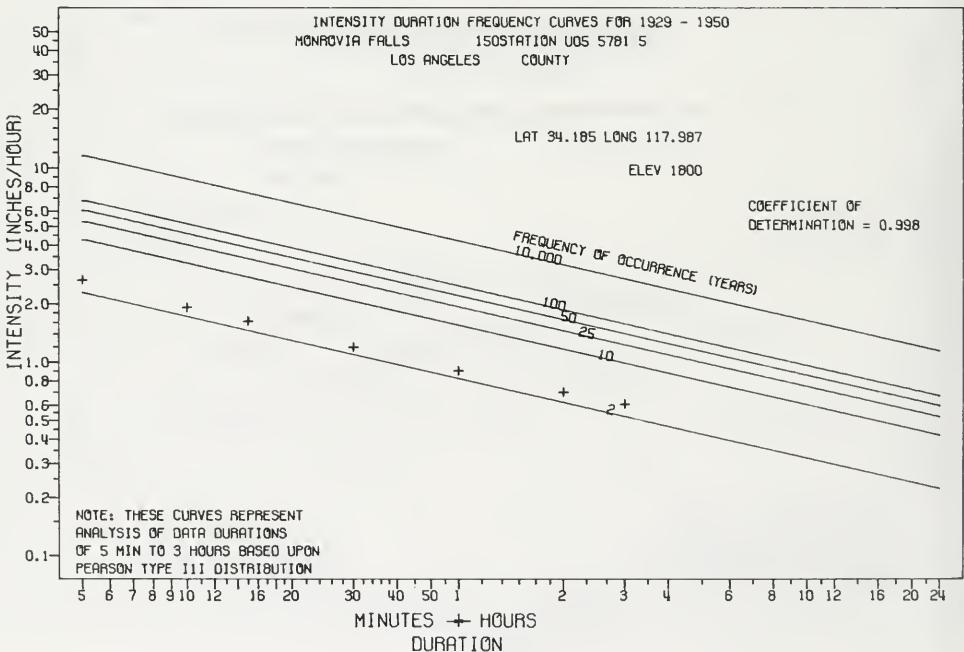
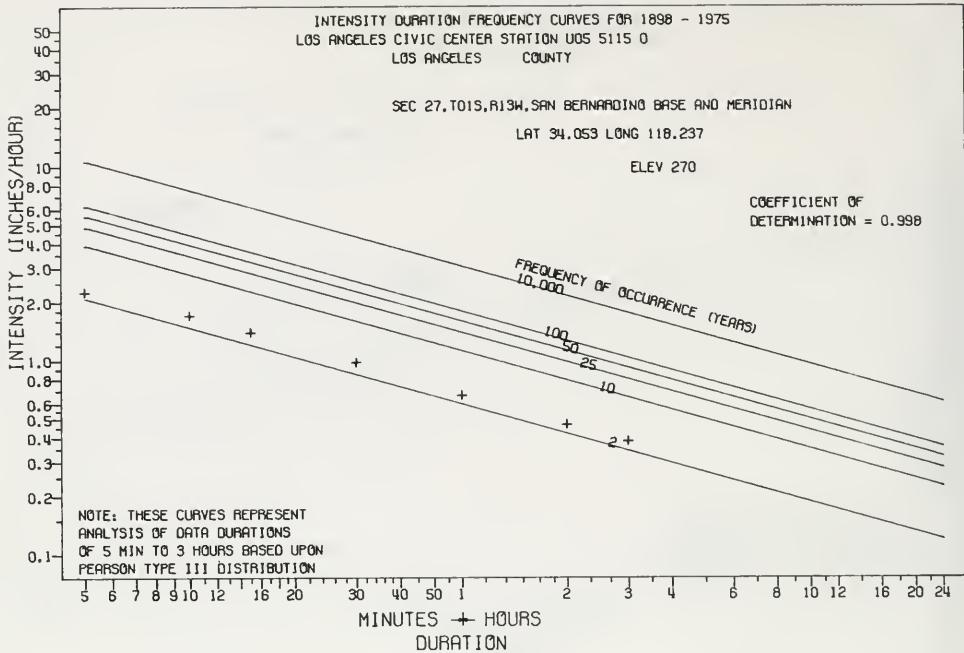
SEC 06, T03S, R14W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.942 LONG 118.386

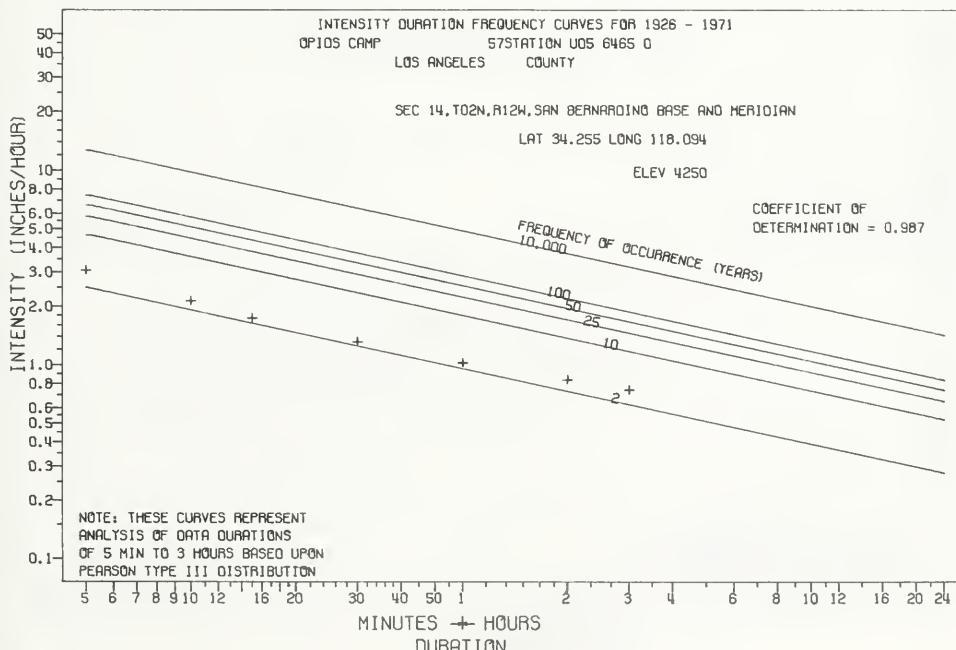
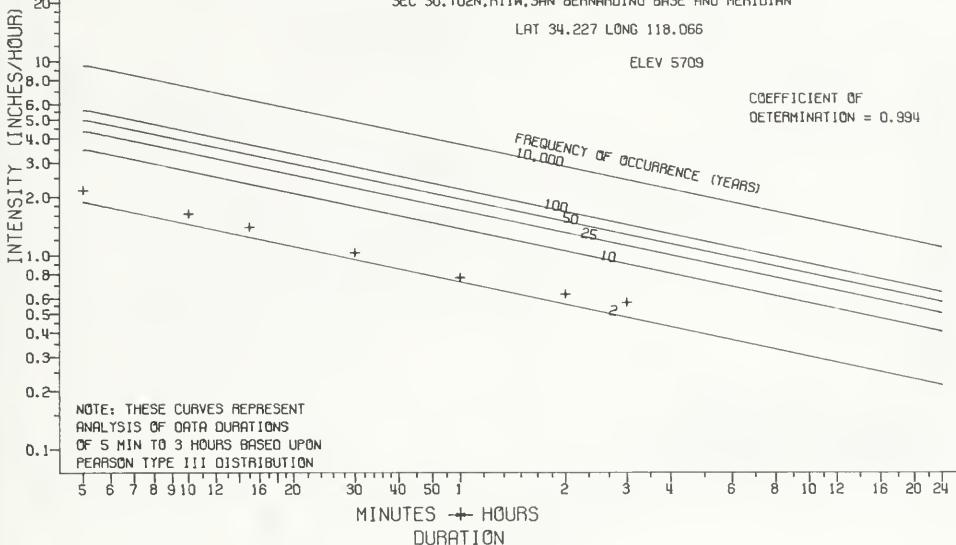
ELEV 105

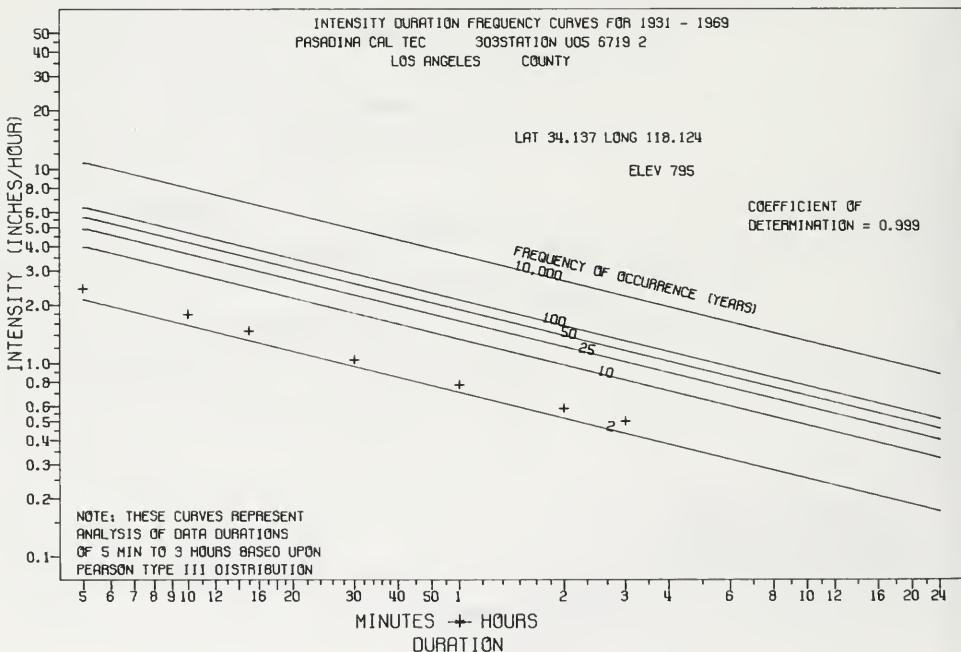
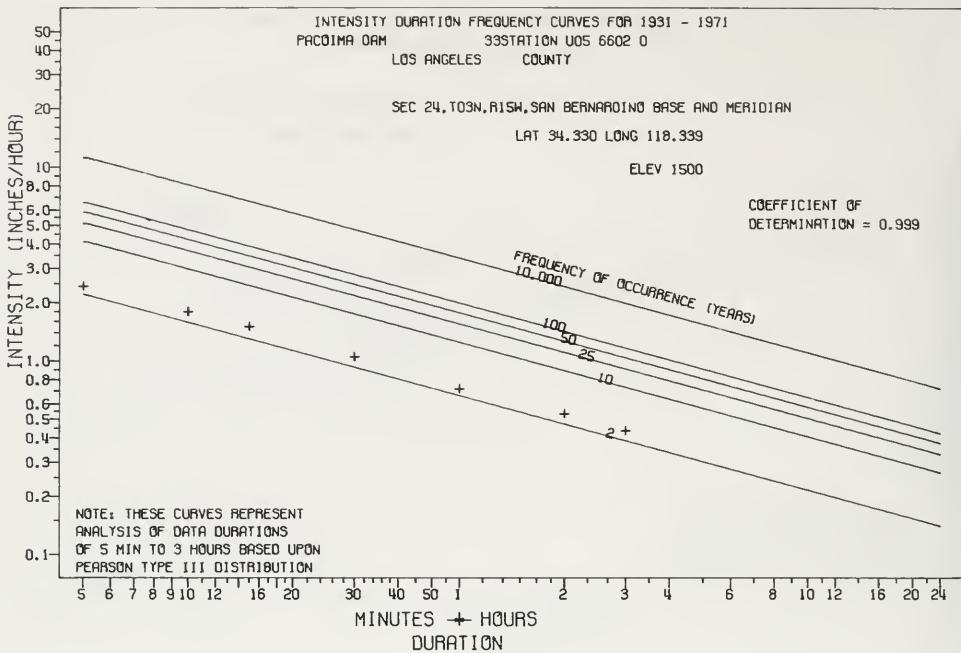
COEFFICIENT OF
DETERMINATION = 0.998





INTENSITY DURATION FREQUENCY CURVES FOR 1933 - 1968
 MT WILSON 338STATION UOS 6006 0
 LOS ANGELES COUNTY





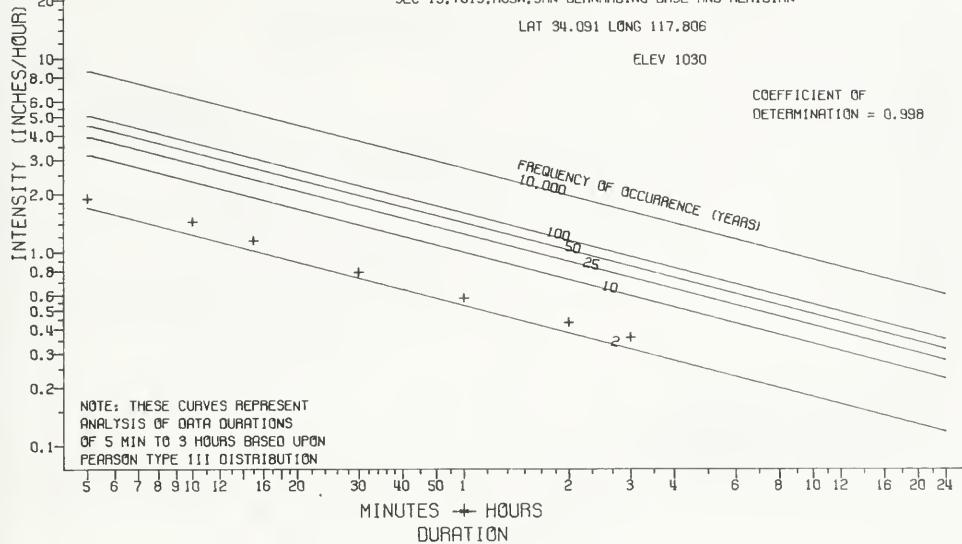
INTENSITY DURATION FREQUENCY CURVES FOR 1953 - 1971
 PUDDINGSTONE DAM STATION UOS 7160 1
 LOS ANGELES COUNTY

SEC 15, T01S, R09W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.091 LONG 117.806

ELEV 1030

COEFFICIENT OF
 DETERMINATION = 0.998

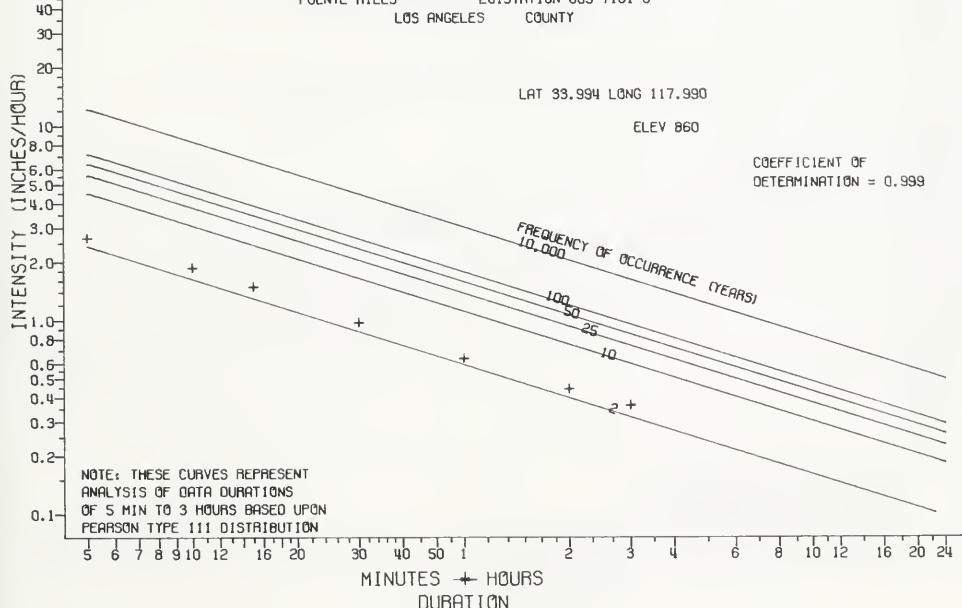


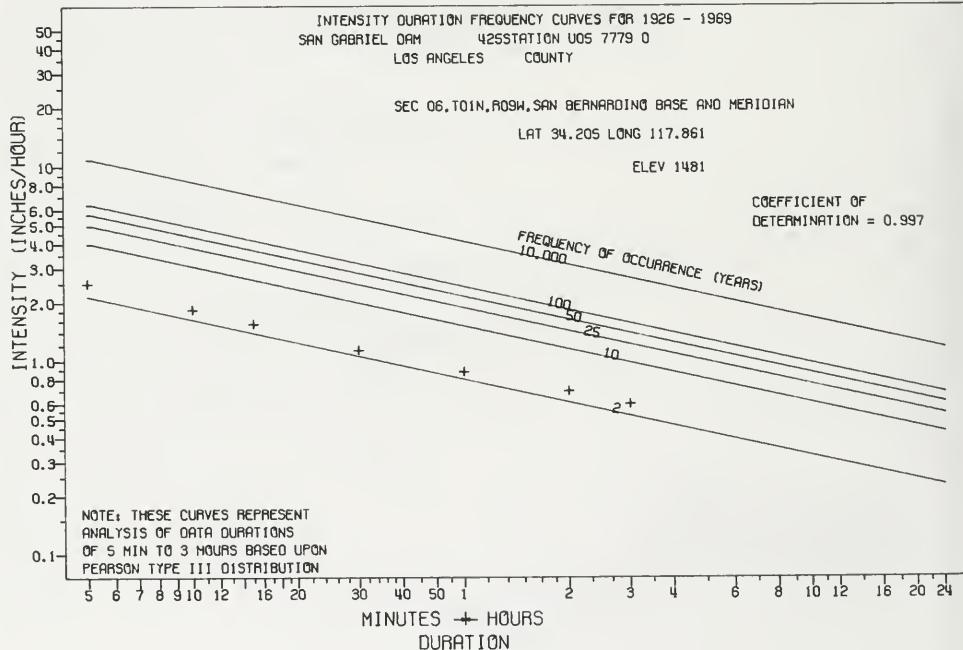
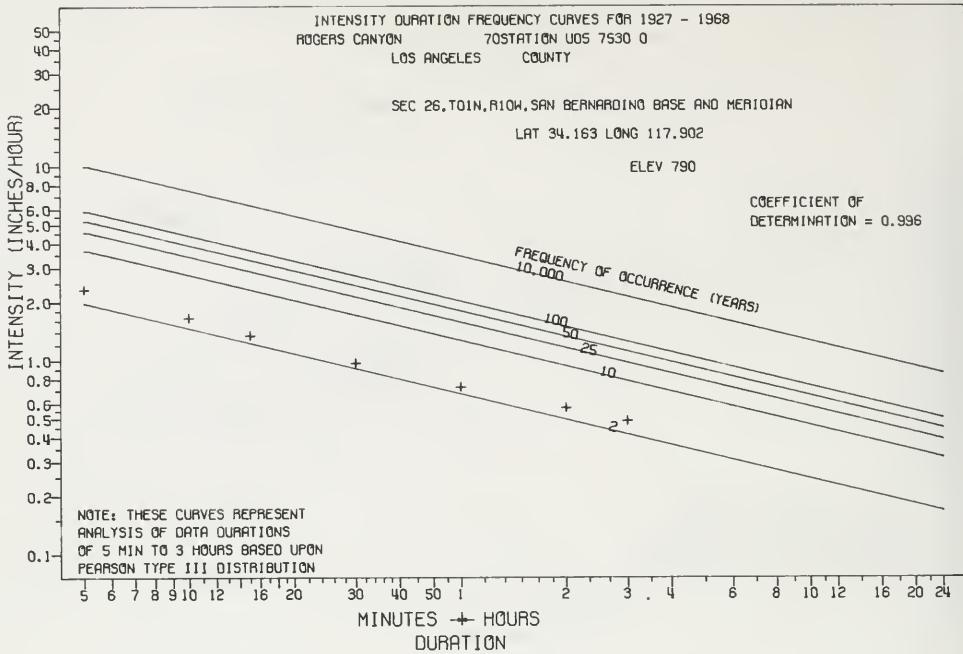
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1972
 PUENTE HILLS STATION UOS 7161 6
 LOS ANGELES COUNTY

LAT 33.994 LONG 117.990

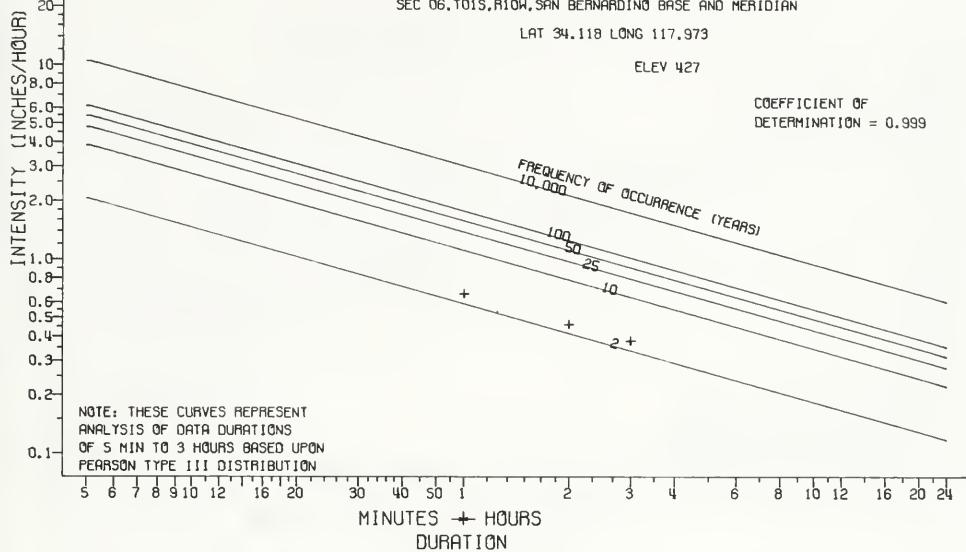
ELEV 860

COEFFICIENT OF DETERMINATION = 0.999

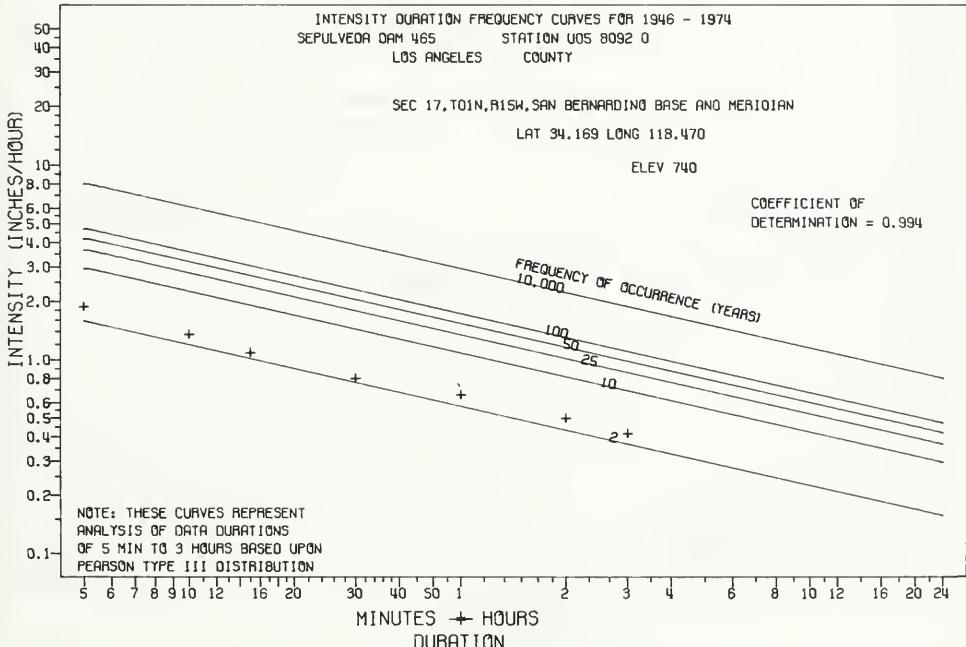


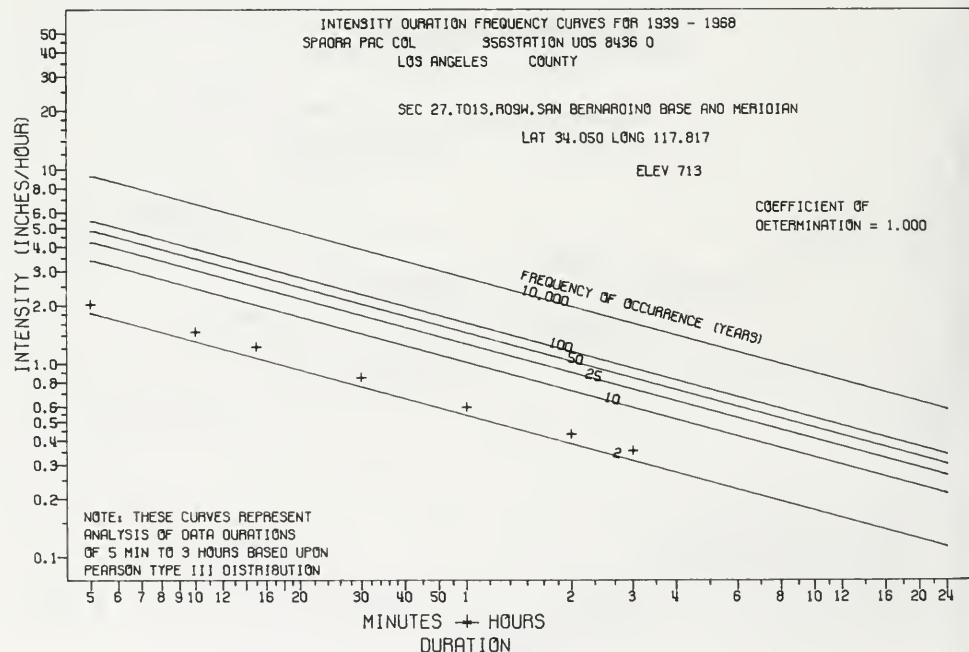
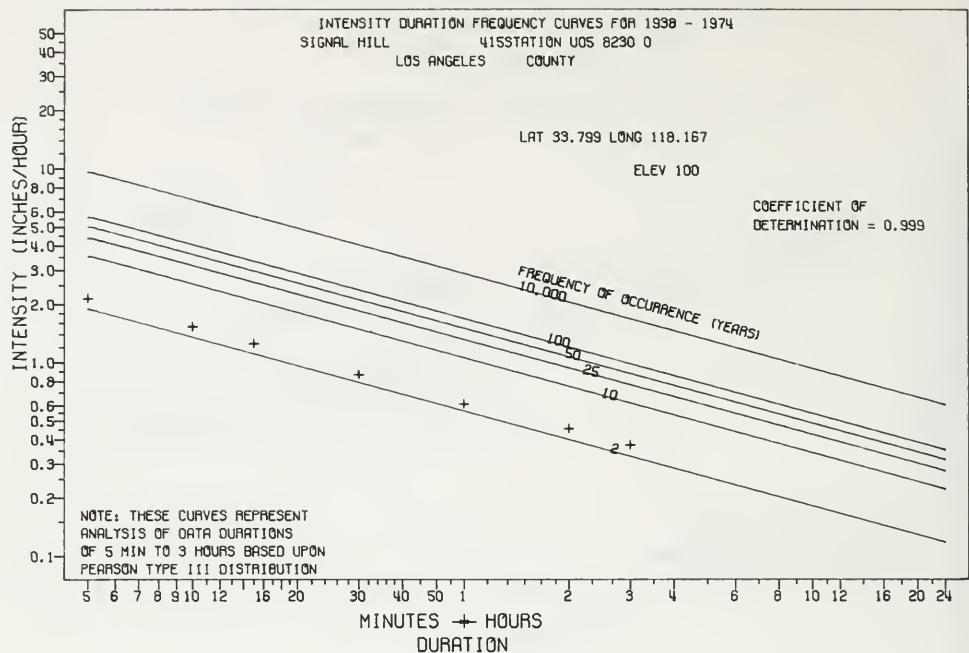


INTENSITY DURATION FREQUENCY CURVES FOR 1946 - 1974
 SANTA FE DAM STATION UOS 7926 0
 LOS ANGELES COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1946 - 1974
 SEPULVEDA DAM 465 STATION UOS 8092 0
 LOS ANGELES COUNTY





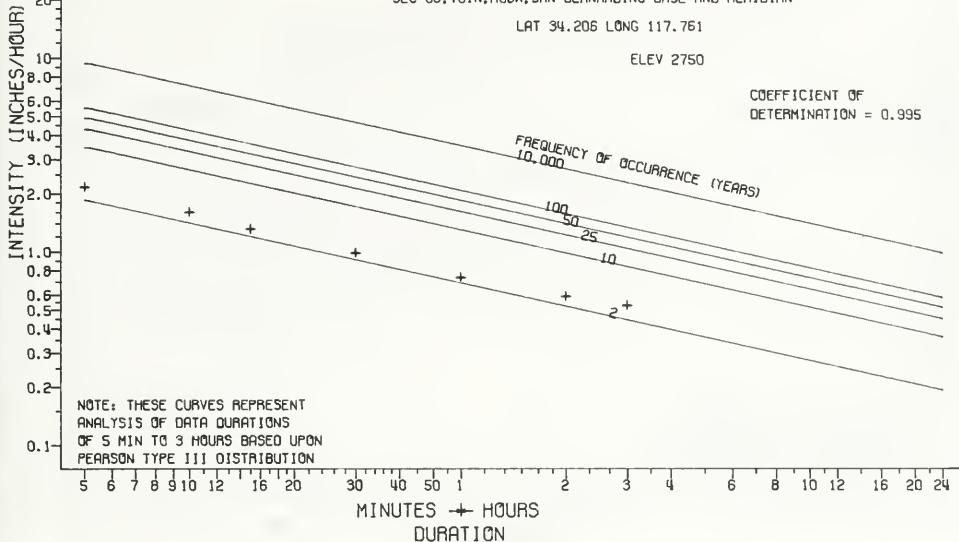
INTENSITY DURATION FREQUENCY CURVES FOR 1934 - 1968
 TANBARK FLATS 158STATION UOS 8783 S1
 LOS ANGELES COUNTY

SEC 06, T01N, R15W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.205 LONG 117.761

ELEV 2750

COEFFICIENT OF
 DETERMINATION = 0.995



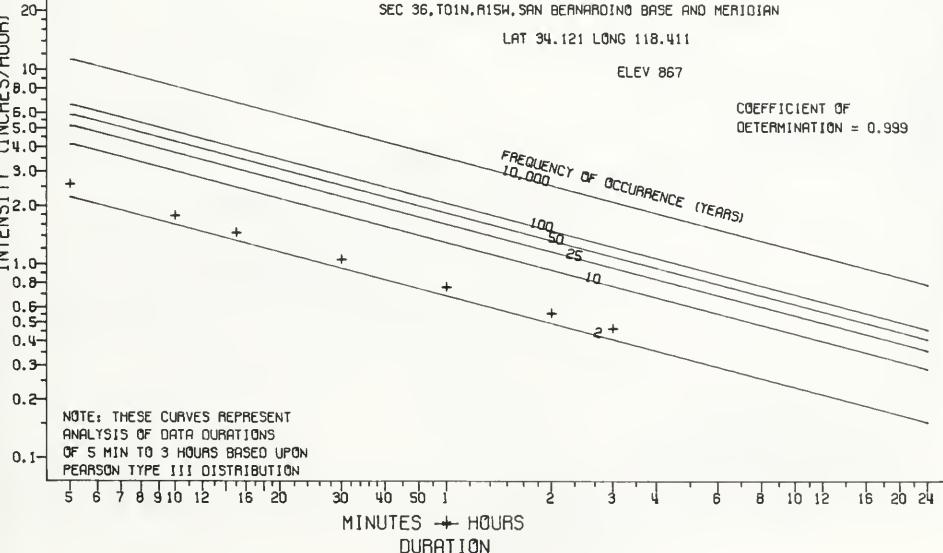
INTENSITY DURATION FREQUENCY CURVES FOR 1938 - 1970
 UPPER FRANKLIN RES 118STATION UOS 9165 O
 LOS ANGELES COUNTY

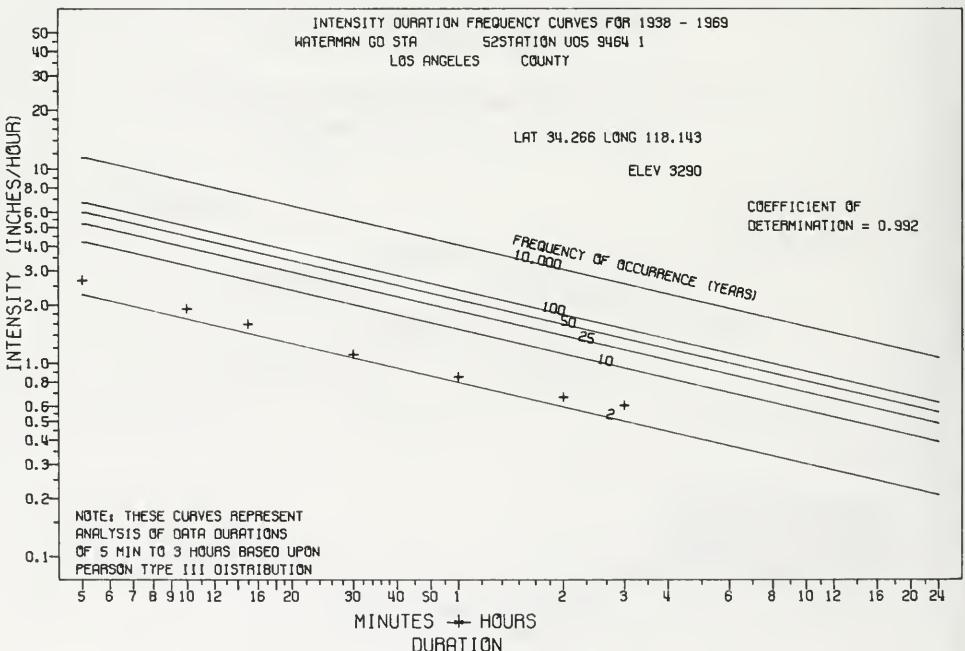
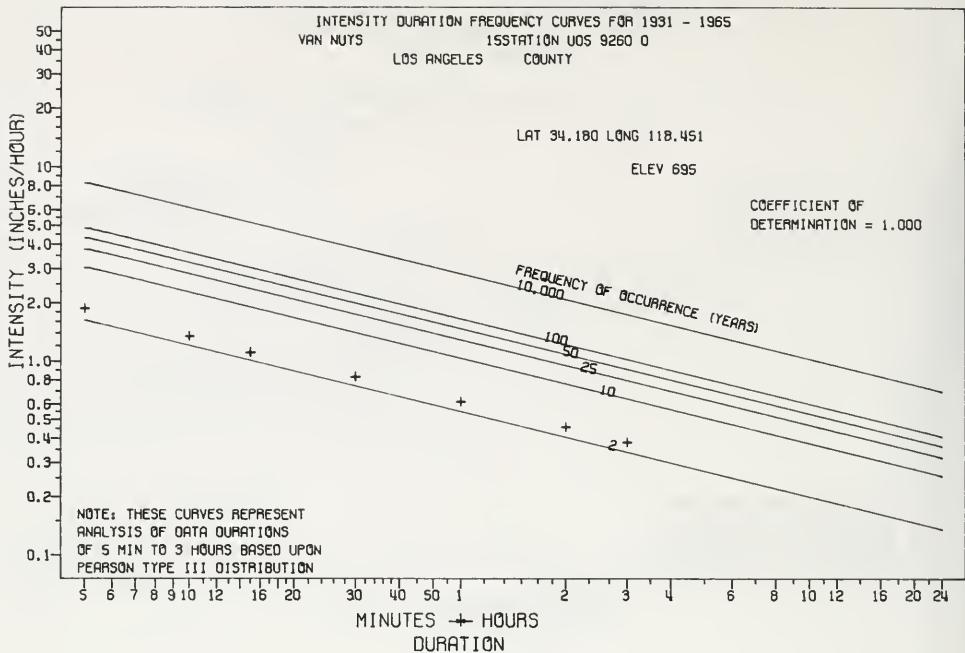
SEC 36, T01N, R15W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.121 LONG 118.411

ELEV 867

COEFFICIENT OF DETERMINATION = 0.999





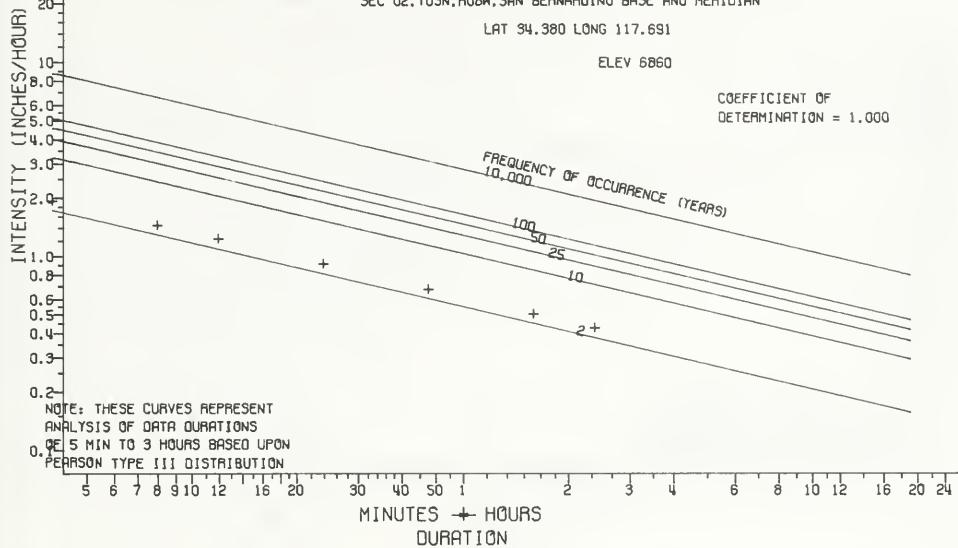
INTENSITY DURATION FREQUENCY CURVES FOR 1926 - 1971
 BIG PINES REC CEN 83STATION W2B 779 0
 LOS ANGELES COUNTY

SEC 02, T03N, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.380 LONG 117.691

ELEV 6860

COEFFICIENT OF
 DETERMINATION = 1.000



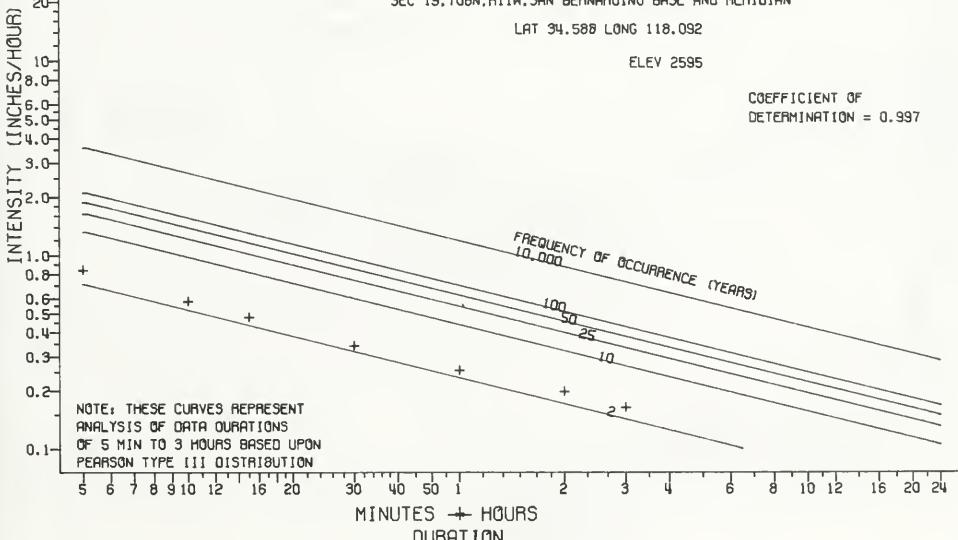
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 PALMDALE STATION W26 6624 0
 LOS ANGELES COUNTY

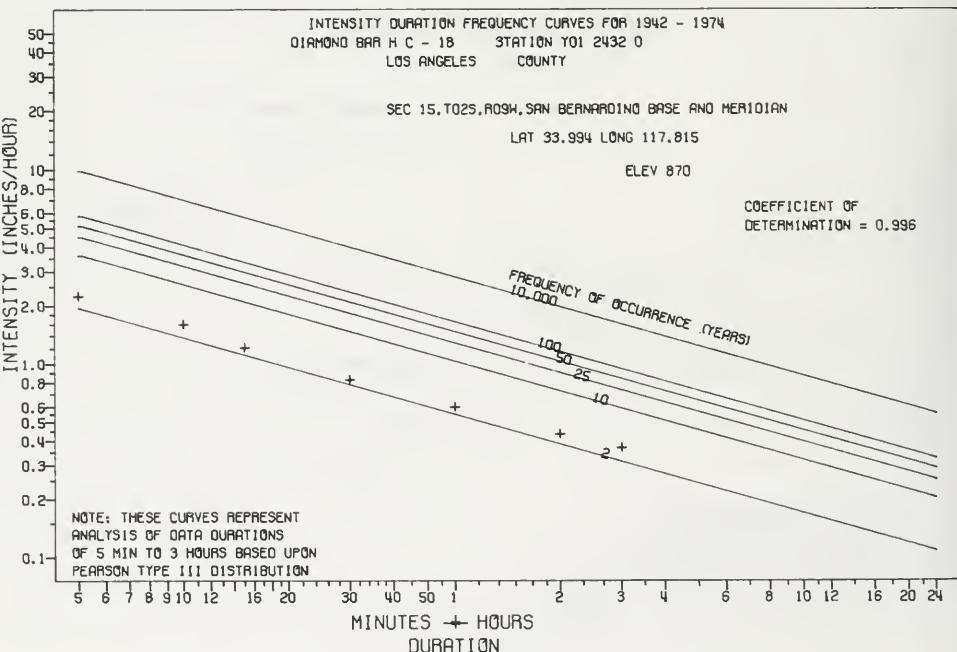
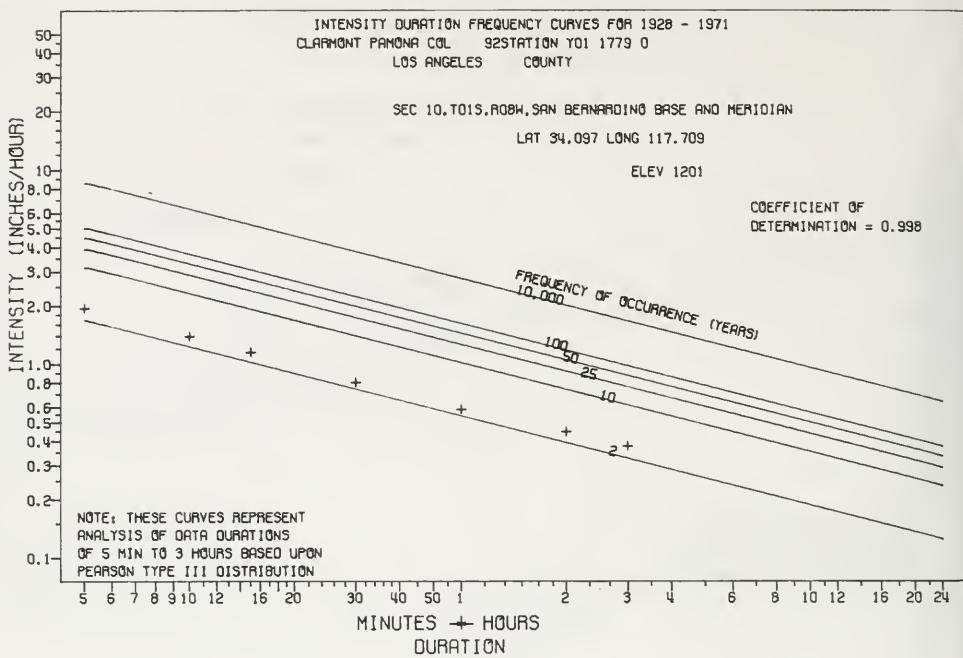
SEC 19, T06N, R11W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.588 LONG 118.092

ELEV 2595

COEFFICIENT OF
 DETERMINATION = 0.997





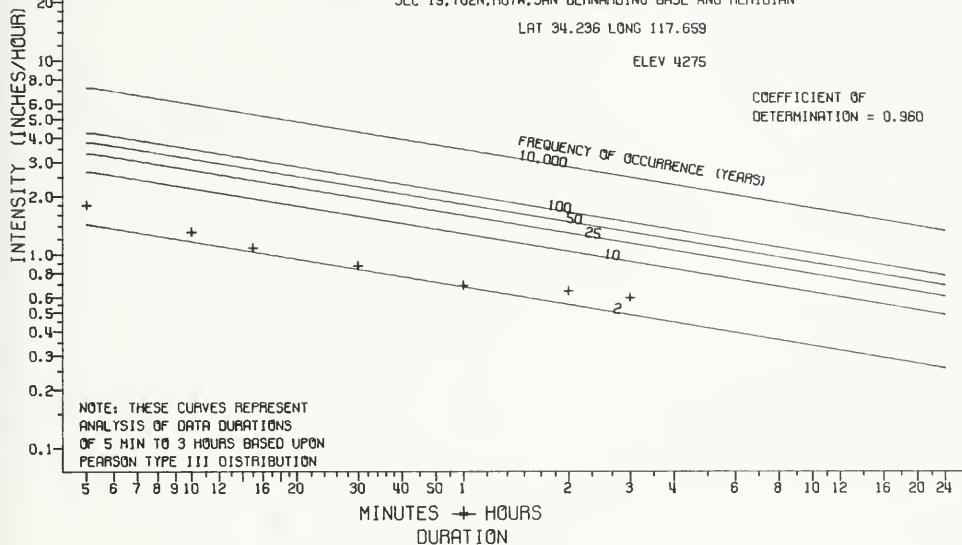
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 MT BALDY FC8SF STATION Y01 5900 0
 LOS ANGELES COUNTY

SEC 19, T02N, R07W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.236 LONG 117.659

ELEV 4275

COEFFICIENT OF
 DETERMINATION = 0.960



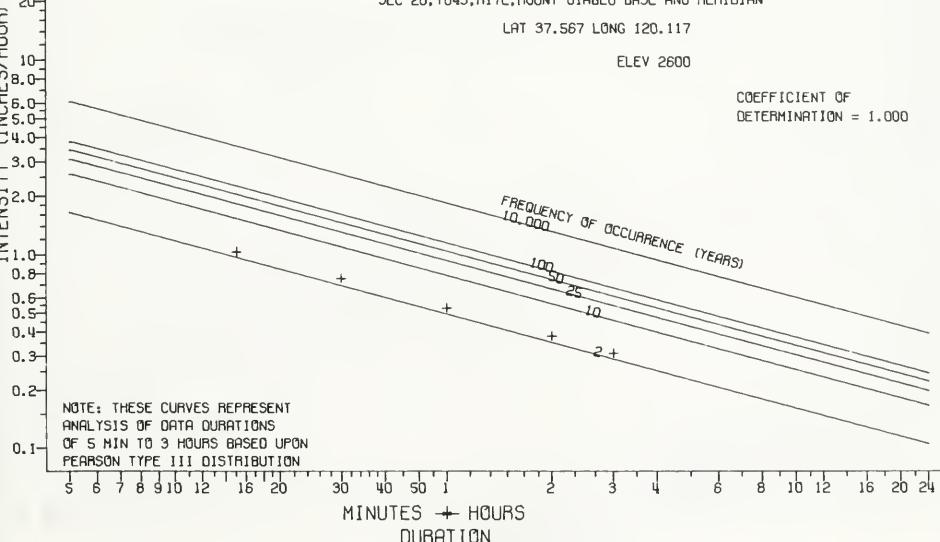
INTENSITY DURATION FREQUENCY CURVES FOR 1961 - 1974
 BEAR VALLEY STATION 850 570 80
 MARIPOSA COUNTY

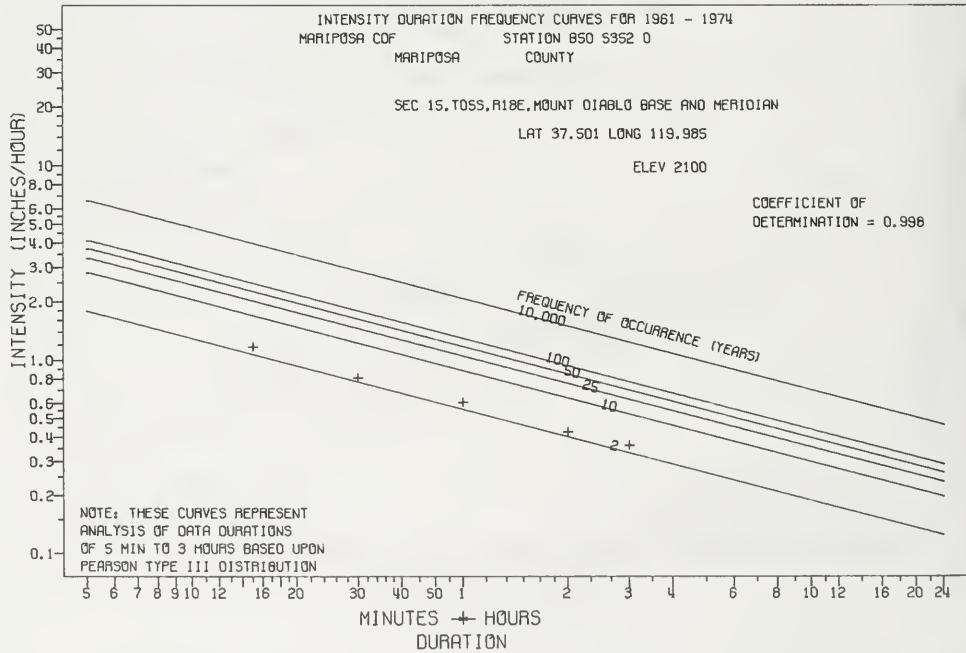
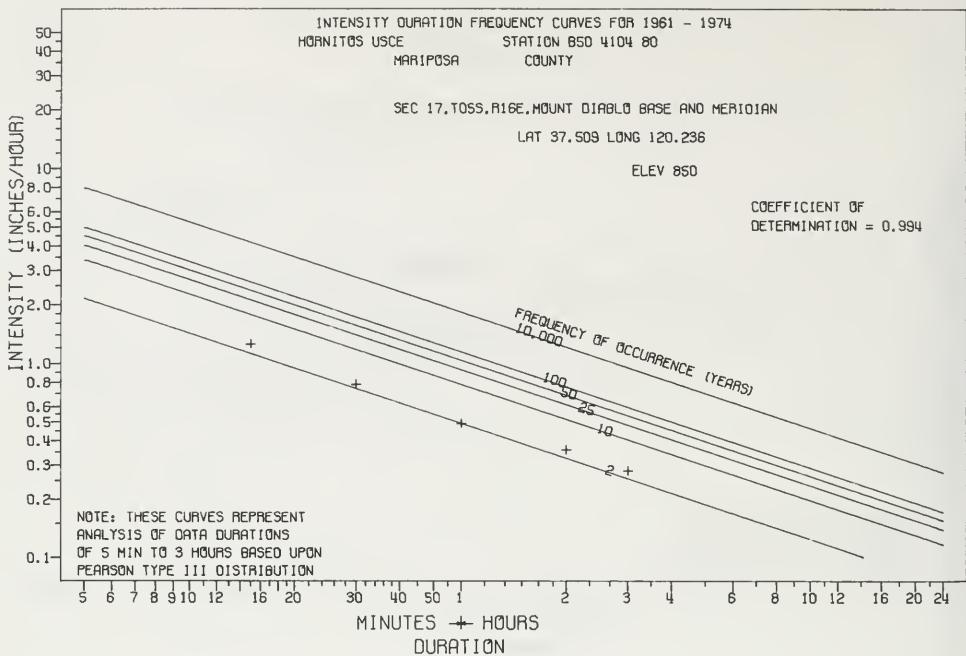
SEC 20, T04S, R17E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.567 LONG 120.117

ELEV 2600

COEFFICIENT OF DETERMINATION = 1.000





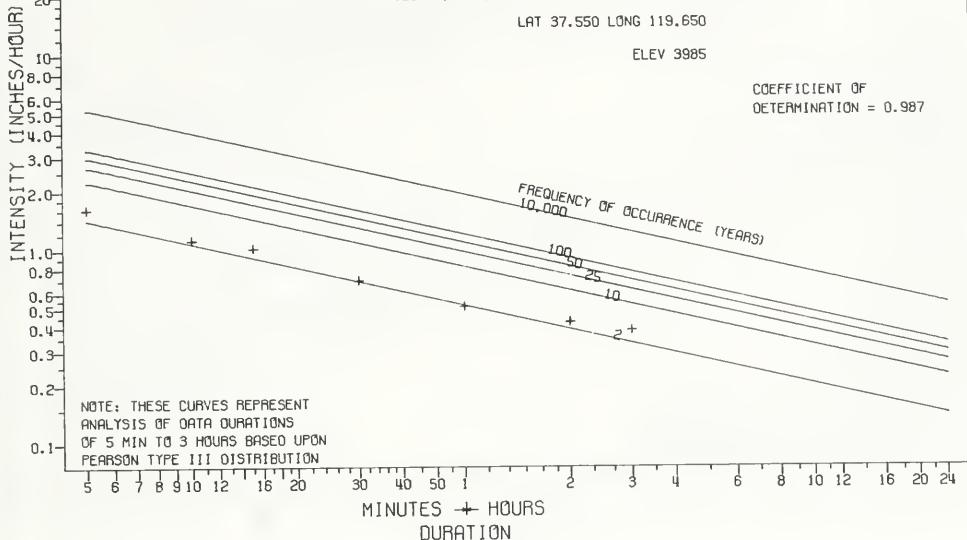
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 WAWONA RS STATION B50 9482 0
 MARIPOSA COUNTY

SEC 34, T04S, R21E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.550 LONG 119.650

ELEV 3985

COEFFICIENT OF
 DETERMINATION = 0.987



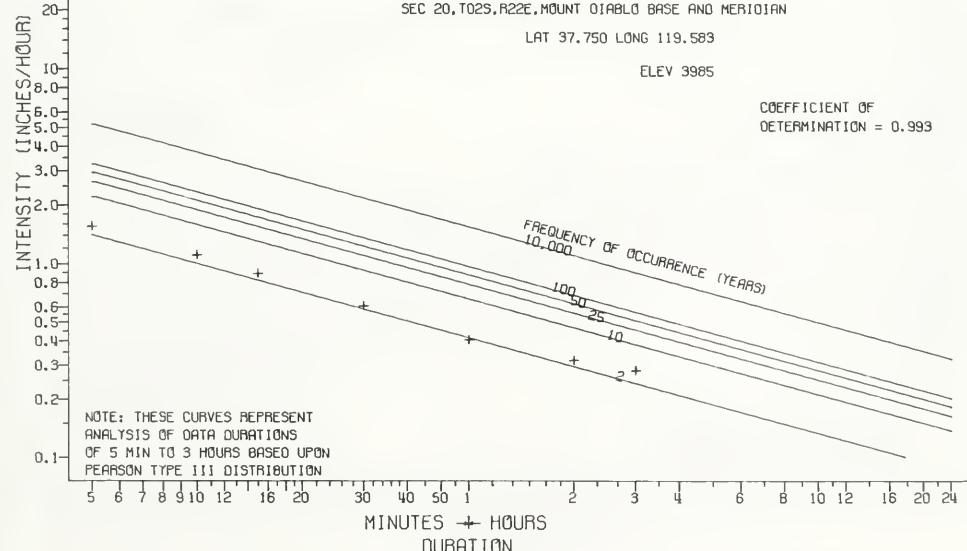
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 YOSEMITE N P STATION B50 9855 0
 MARIPOSA COUNTY

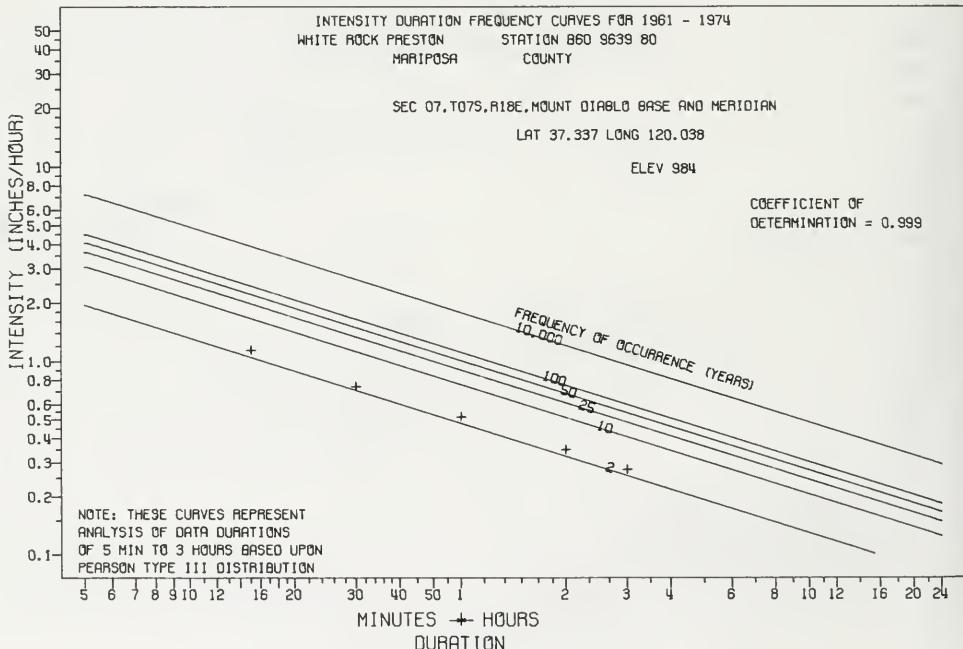
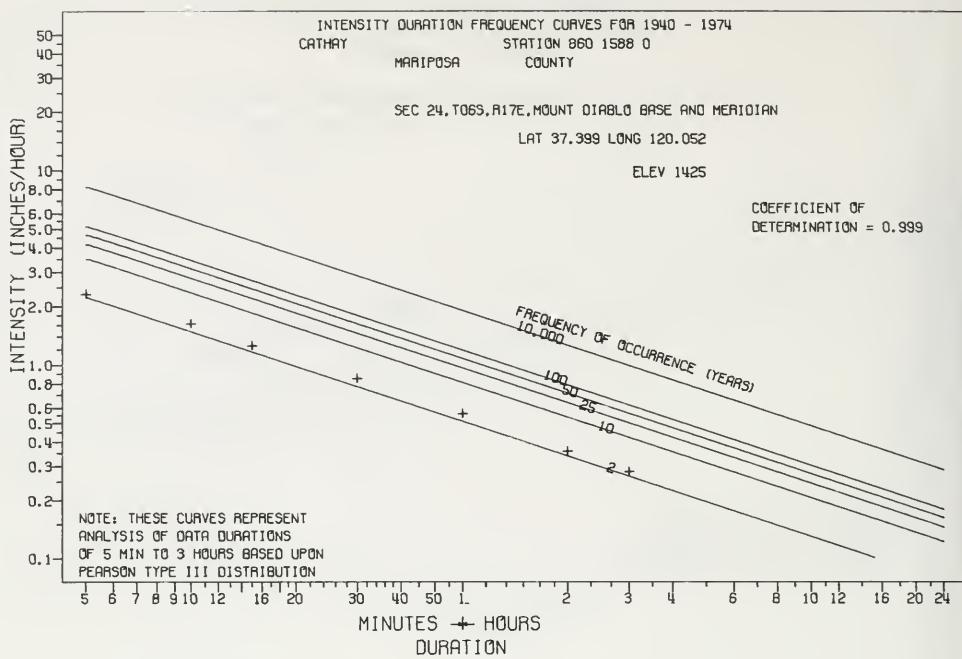
SEC 20, T02S, R22E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.750 LONG 119.583

ELEV 3985

COEFFICIENT OF DETERMINATION = 0.993





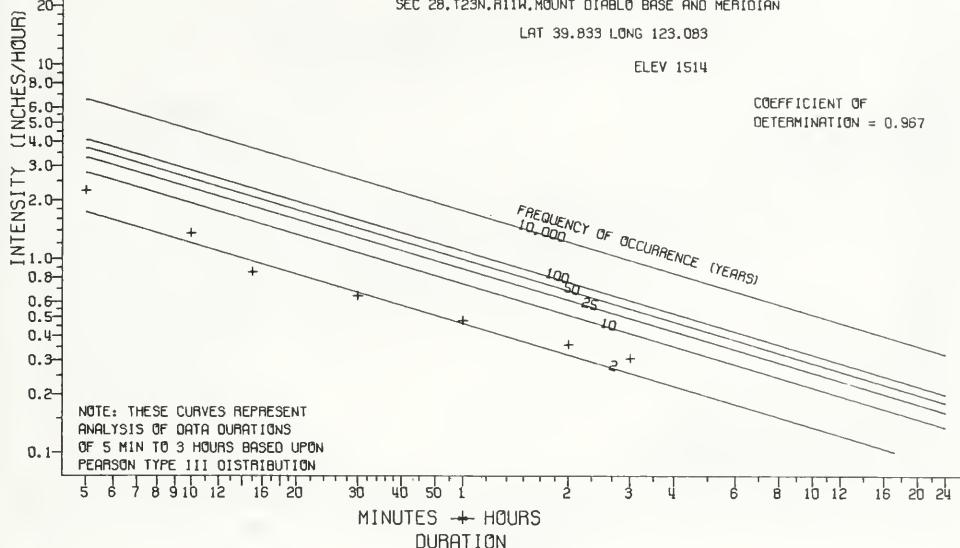
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 COVELO R S STATION F60 2084 0
 MENDOCINO COUNTY

SEC 28, T23N, R11W, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.833 LONG 123.083

ELEV 1514

COEFFICIENT OF DETERMINATION = 0.967



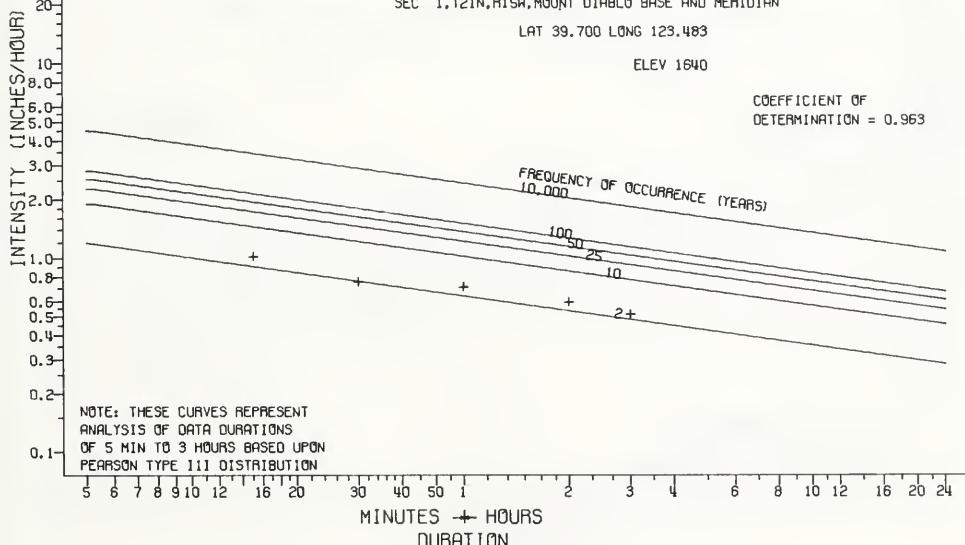
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 LAYTONVILLE STATION F60 4051 0
 MENDOCINO COUNTY

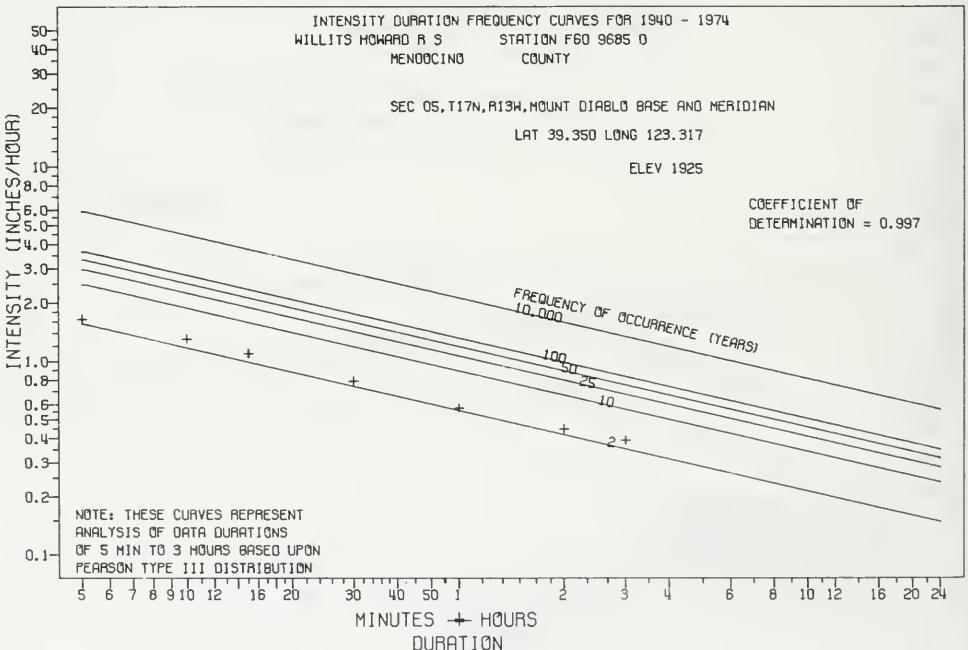
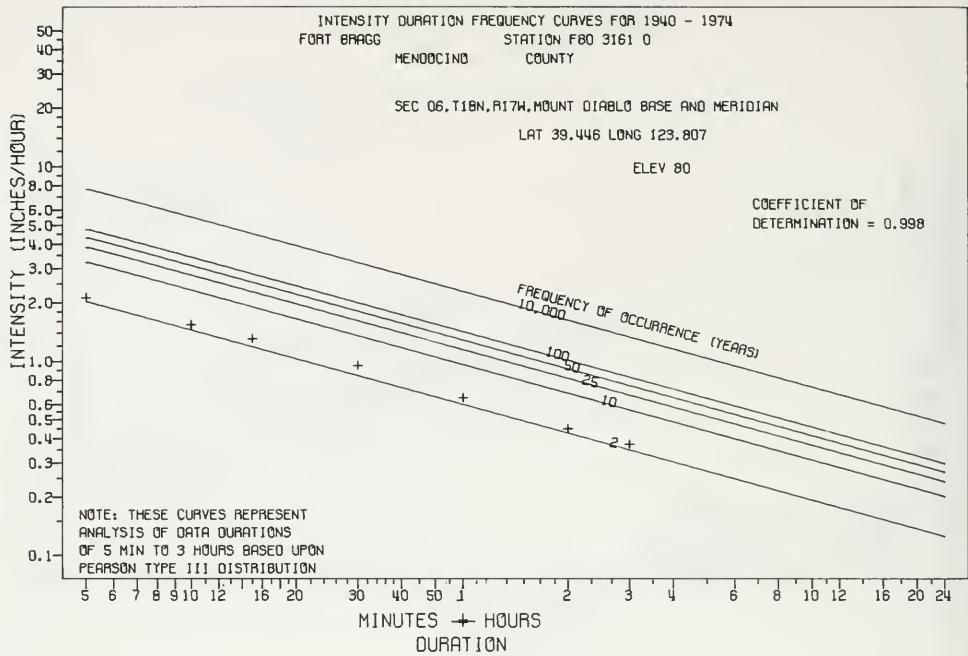
SEC 1, T21N, R15W, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.700 LONG 123.483

ELEV 1640

COEFFICIENT OF DETERMINATION = 0.963





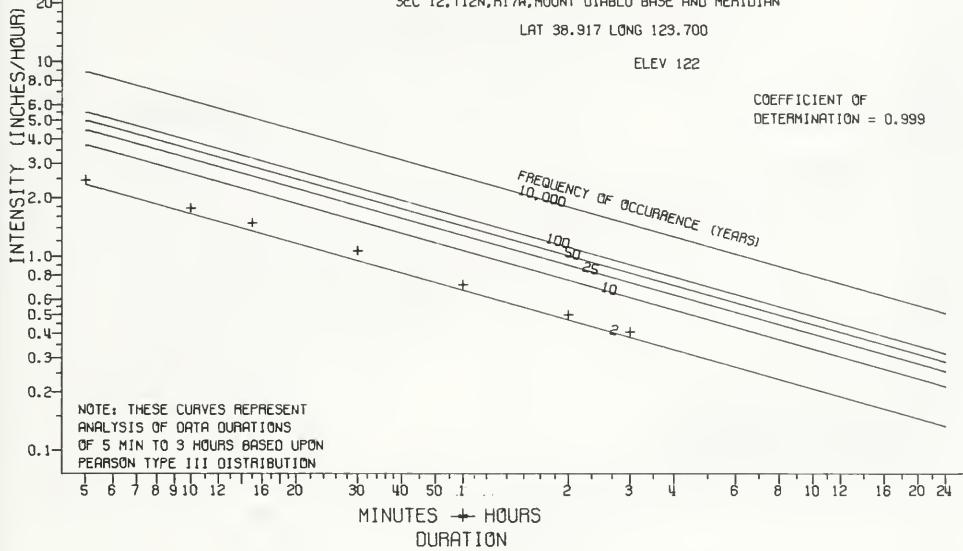
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1973
 POINT ARENA STATION FBO 7009 0
 MENDOCINO COUNTY

SEC 12, T12N, R17W, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.917 LONG 123.700

ELEV 122

COEFFICIENT OF
 DETERMINATION = 0.999



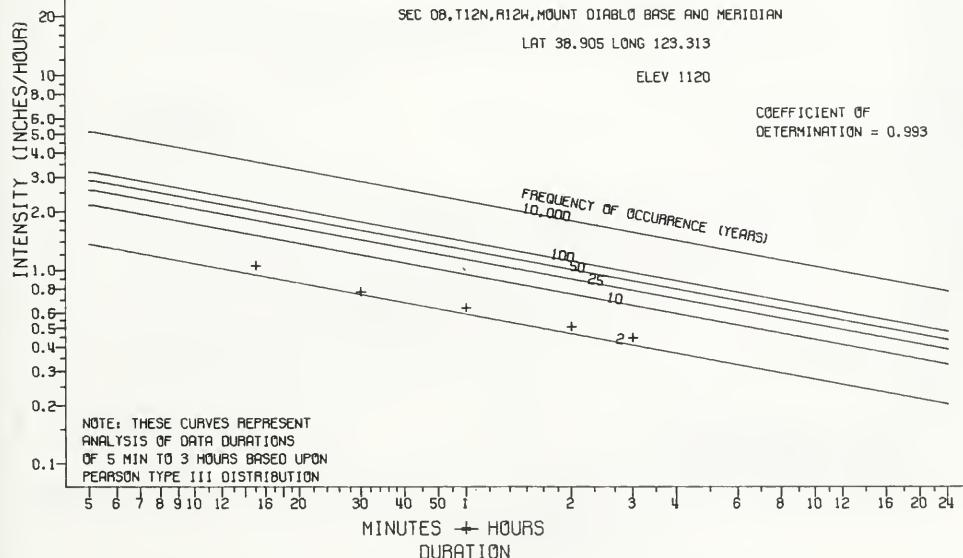
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 YORKVILLE STATION FBO 9851 0
 MENDOCINO COUNTY

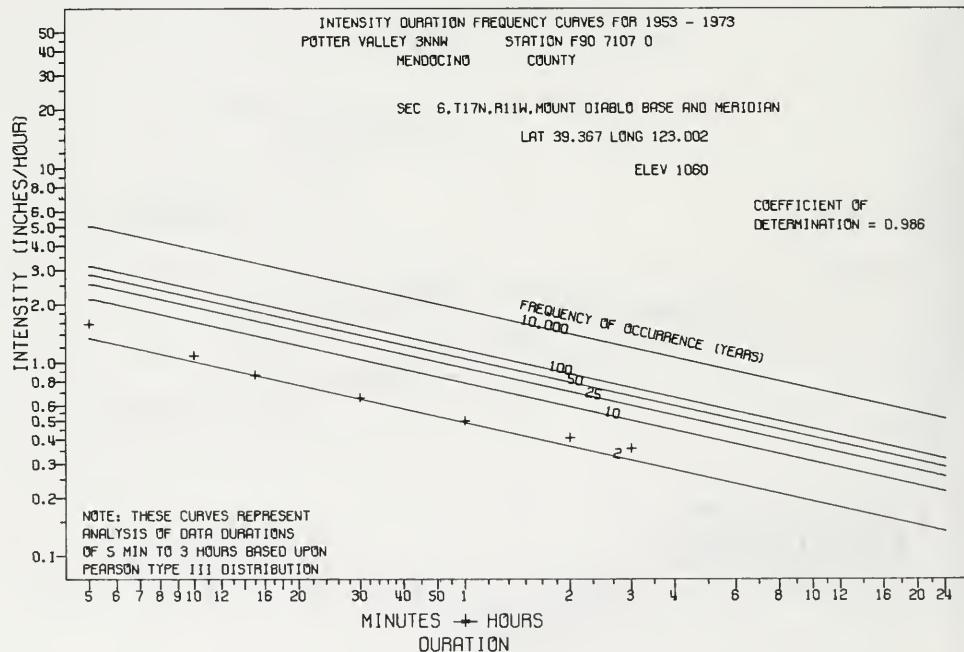
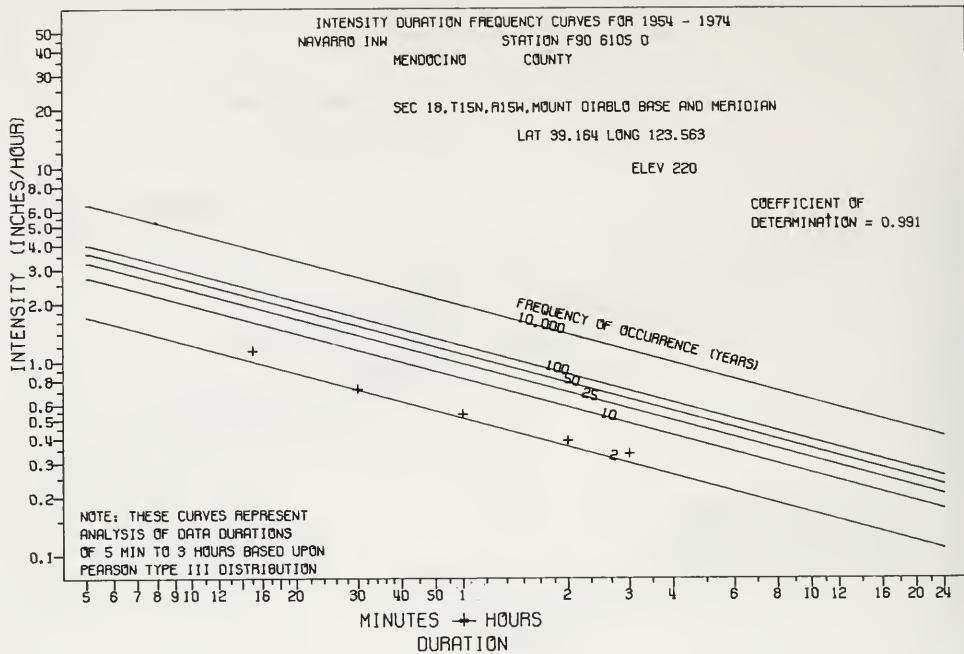
SEC 08, T12N, R12W, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.905 LONG 123.313

ELEV 1120

COEFFICIENT OF
 DETERMINATION = 0.993



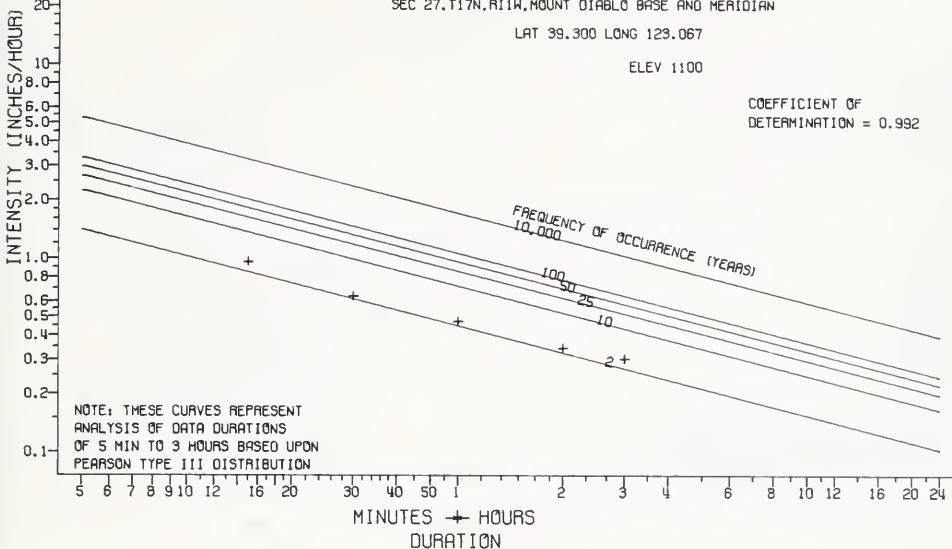


INTENSITY DURATION FREQUENCY CURVES FOR 1953 - 1974
 POTTER VALLEY 3SE STATION F90 7108 0
 MENDOCINO COUNTY

SEC 27.T17N.R11W.MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.300 LONG 123.067

ELEV 1100

COEFFICIENT OF
 DETERMINATION = 0.992

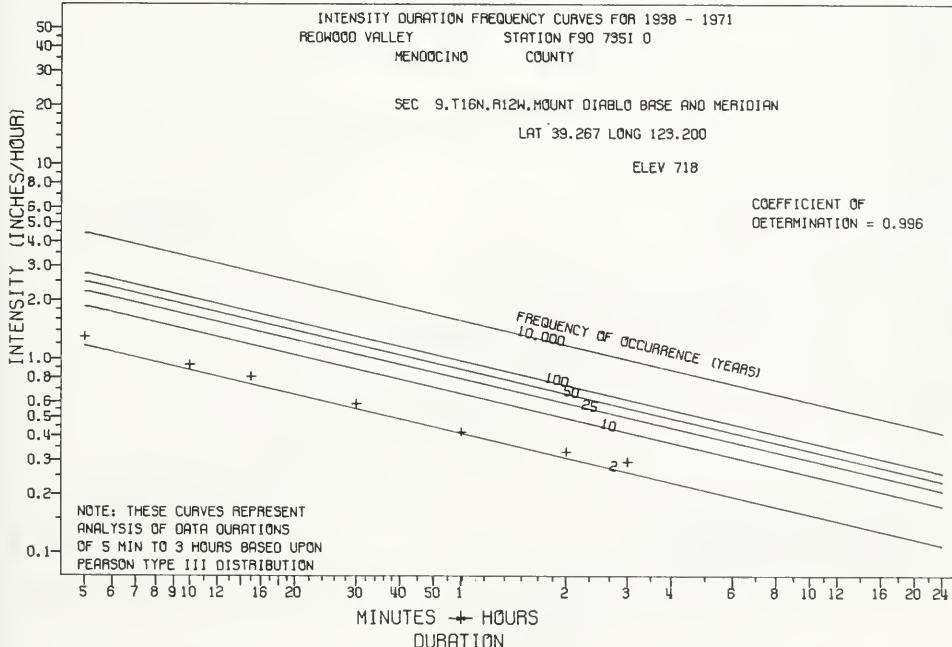


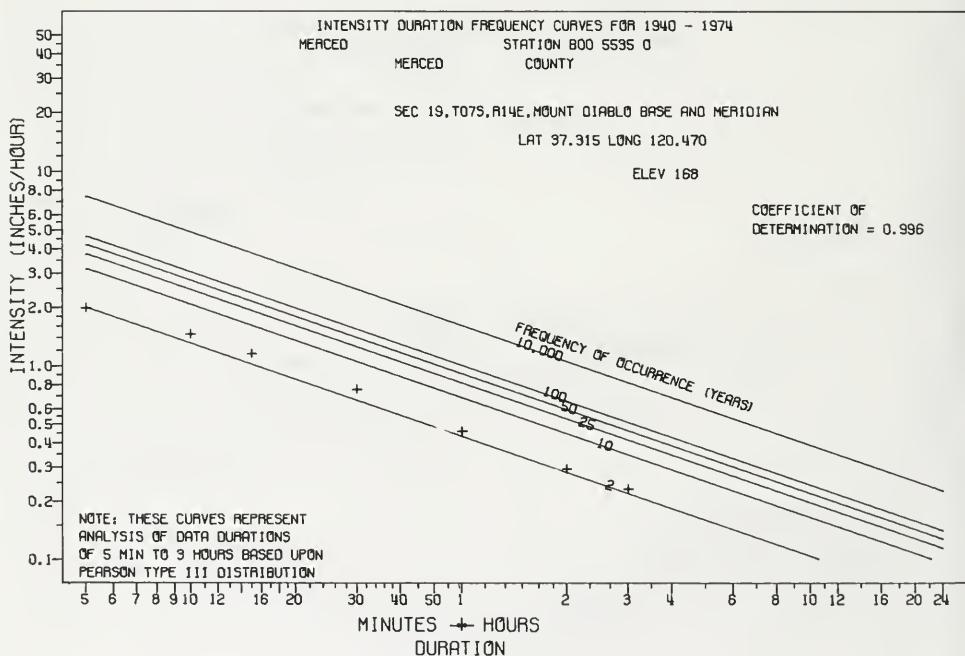
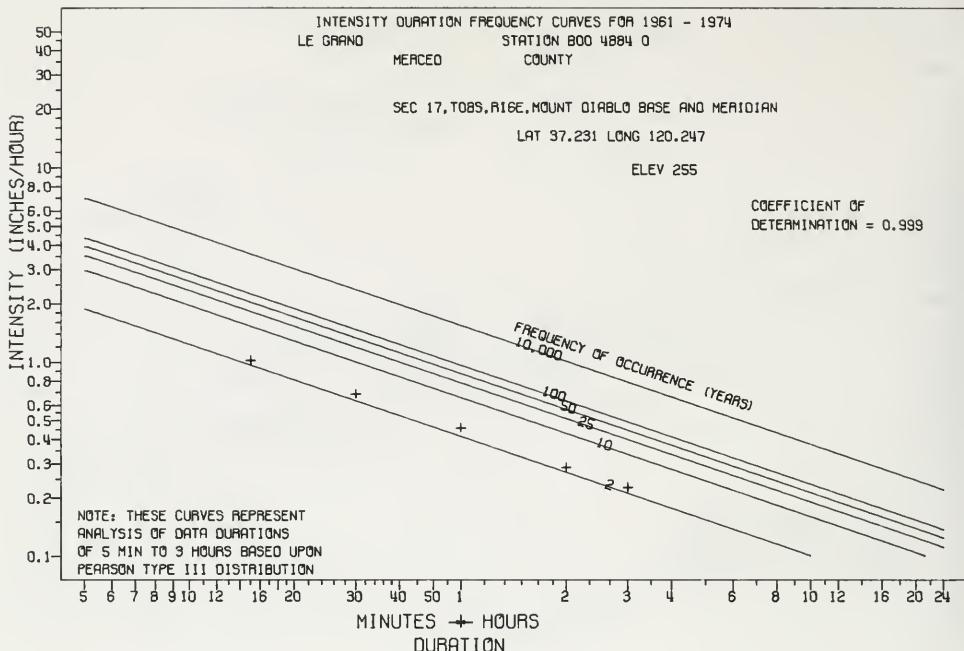
INTENSITY DURATION FREQUENCY CURVES FOR 1958 - 1971
 REDWOOD VALLEY STATION F90 7351 0
 MENDOCINO COUNTY

SEC 9.T16N.R12W.MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.267 LONG 123.200

ELEV 718

COEFFICIENT OF DETERMINATION = 0.996





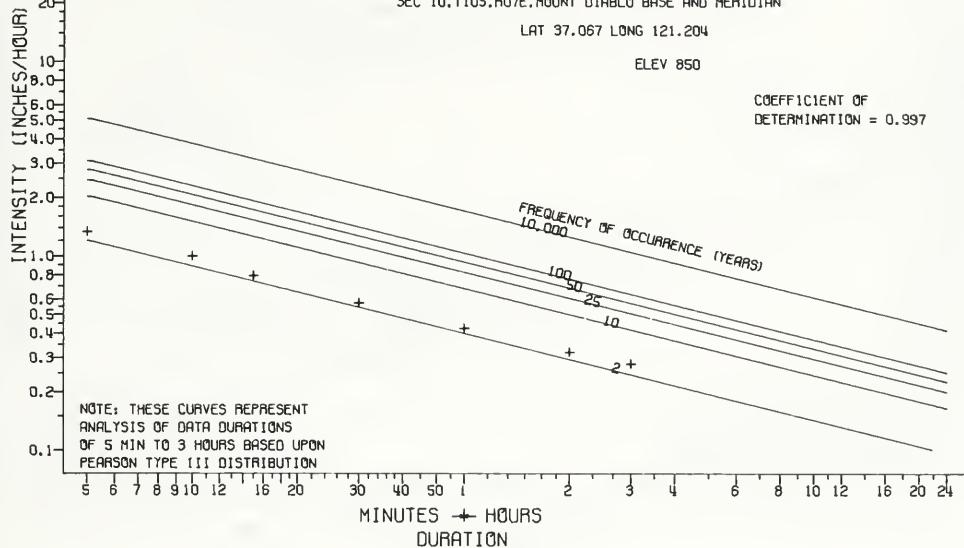
INTENSITY DURATION FREQUENCY CURVES FOR 1950 - 1973
 PACHECO PASS STATION B80 6583 0
 MERCED COUNTY

SEC 10, T10S, R07E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.067 LONG 121.204

ELEV 850

COEFFICIENT OF
 DETERMINATION = 0.997



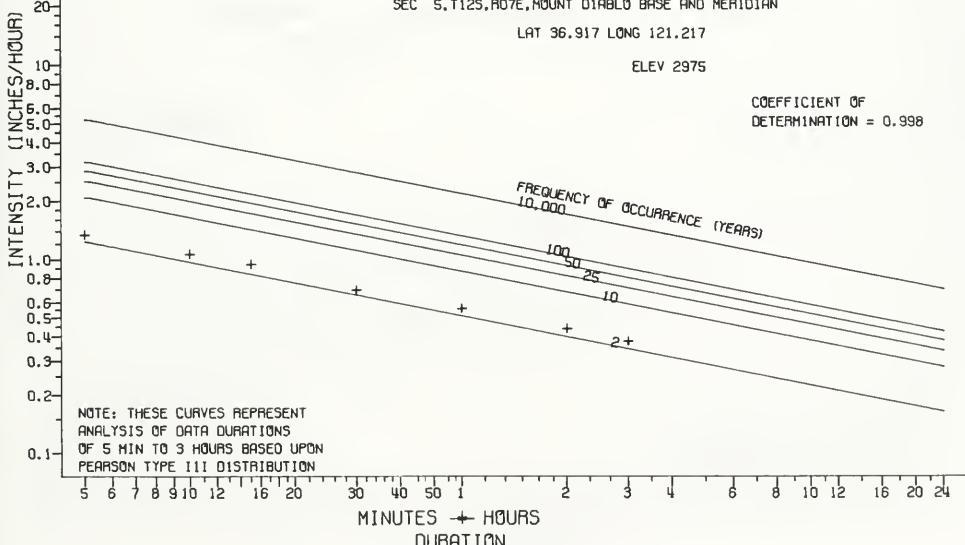
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1960
 STAYTON MINE STATION B80 8517 0
 MERCED COUNTY

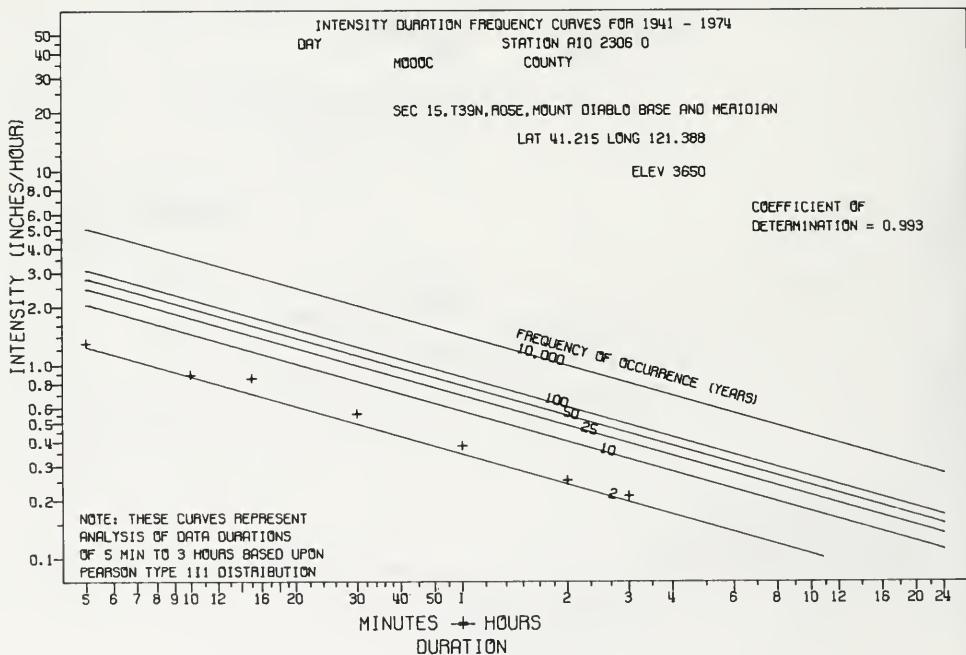
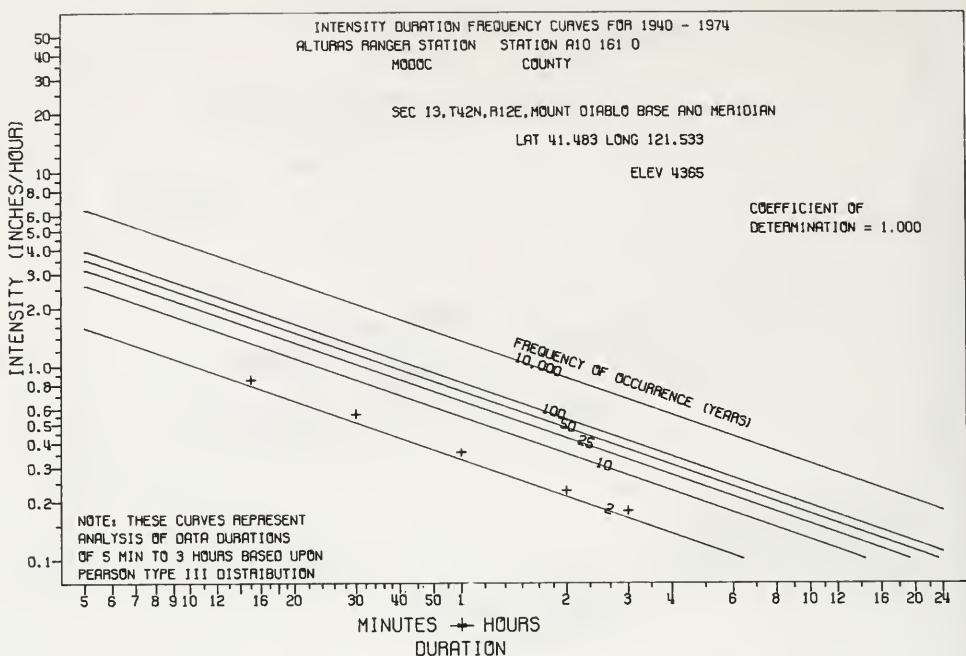
SEC 5, T12S, R07E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.917 LONG 121.217

ELEV 2975

COEFFICIENT OF
 DETERMINATION = 0.998





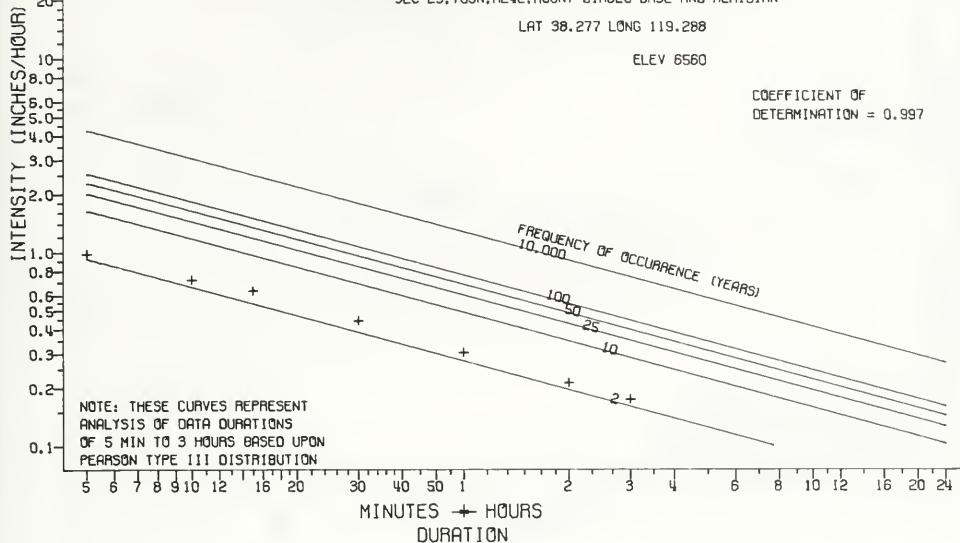
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 BRIDGEPORT STATION G90 1076 0
 MONO COUNTY

SEC 23, T05N, R24E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.277 LONG 119.288

ELEV 6560

COEFFICIENT OF
 DETERMINATION = 0.997



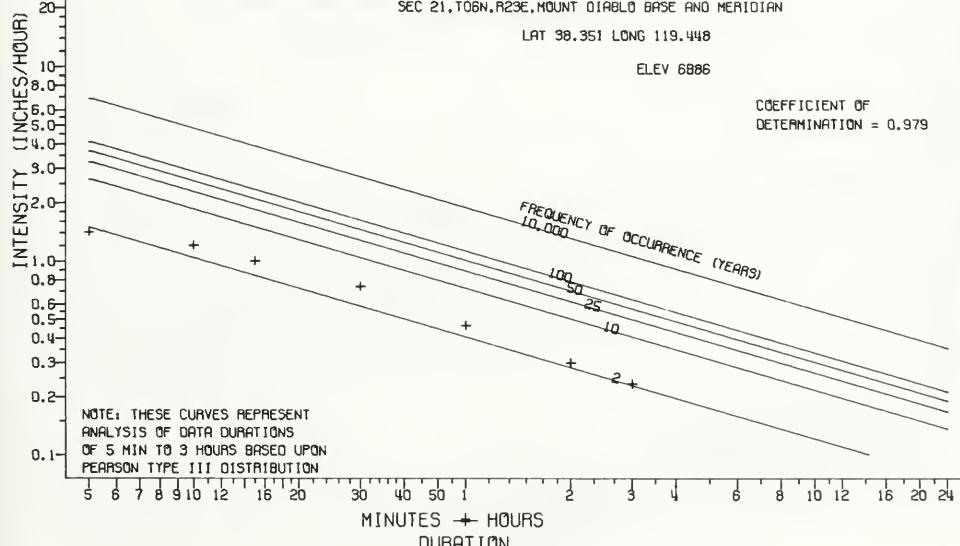
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 SANDIA JUNCTION STATION G90 8355 0
 MONO COUNTY

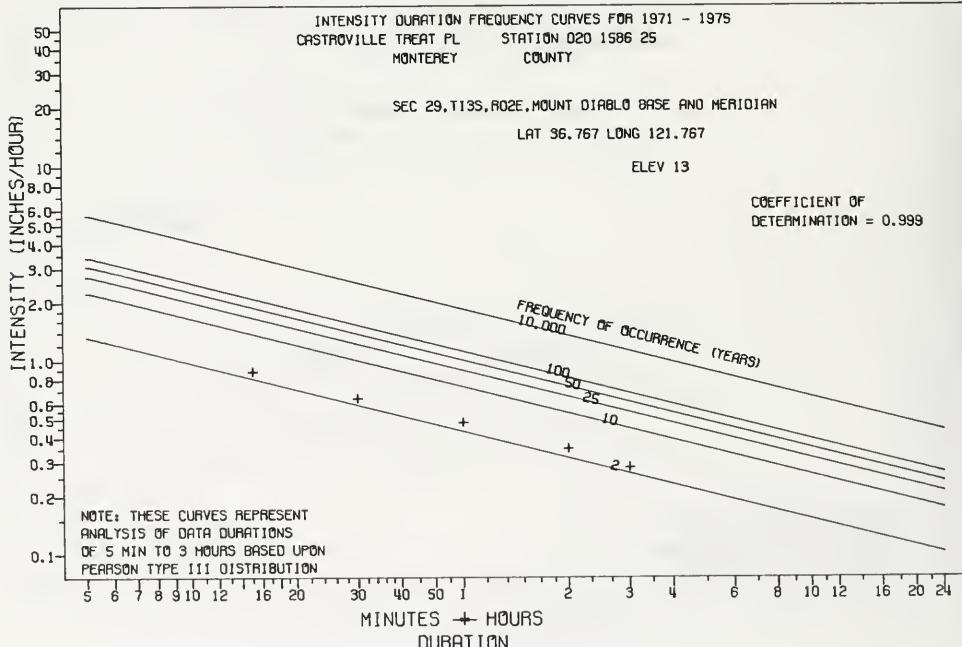
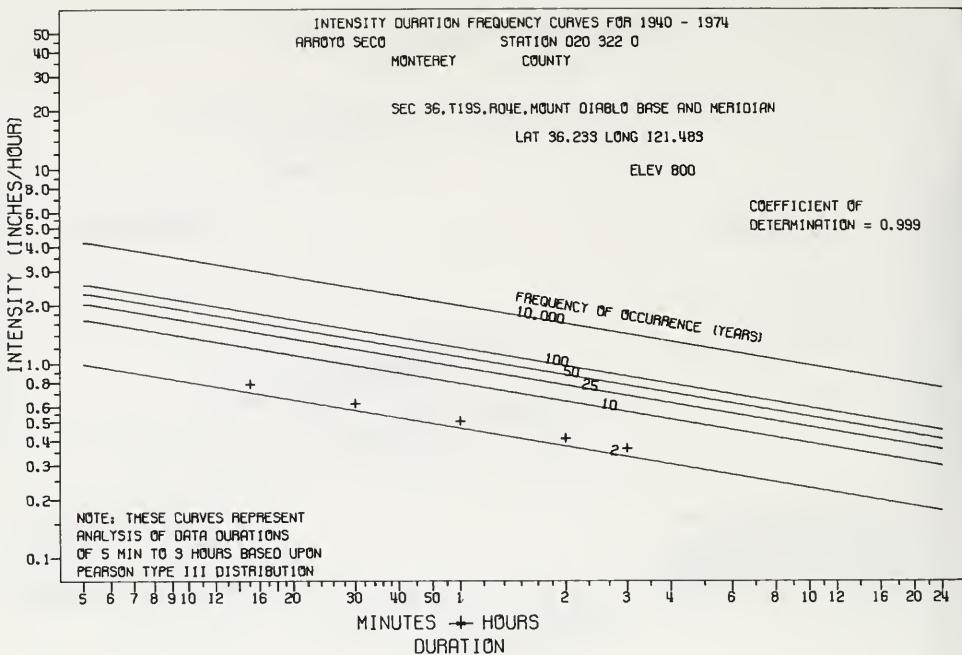
SEC 21, T05N, R23E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.351 LONG 119.448

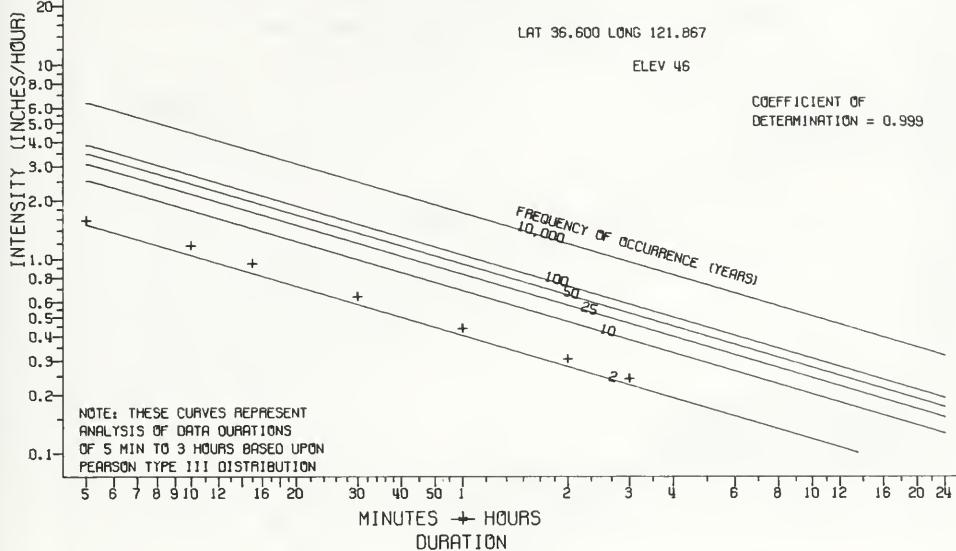
ELEV 6886

COEFFICIENT OF
 DETERMINATION = 0.979

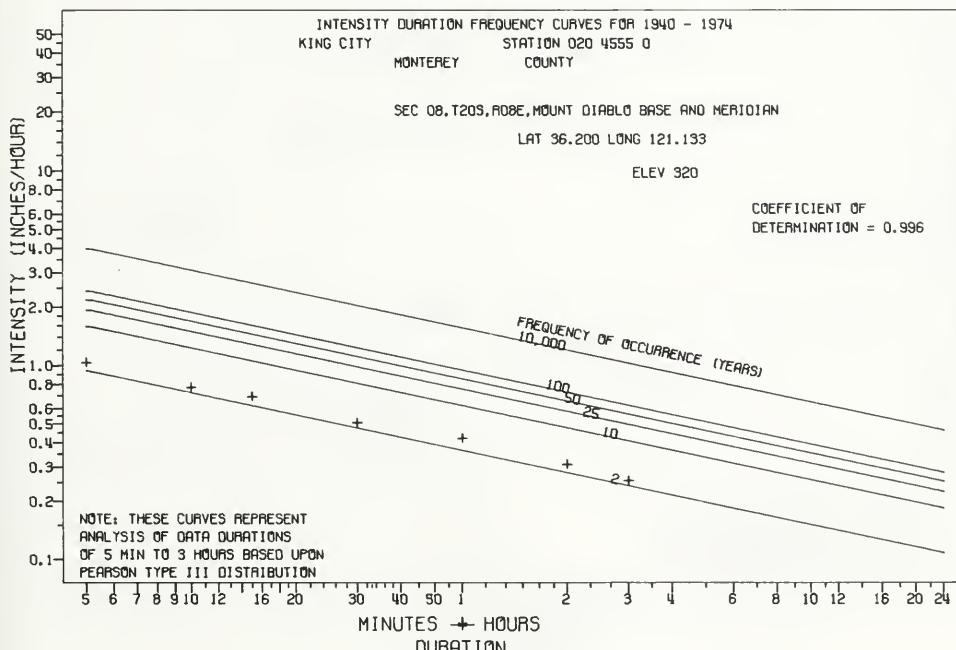


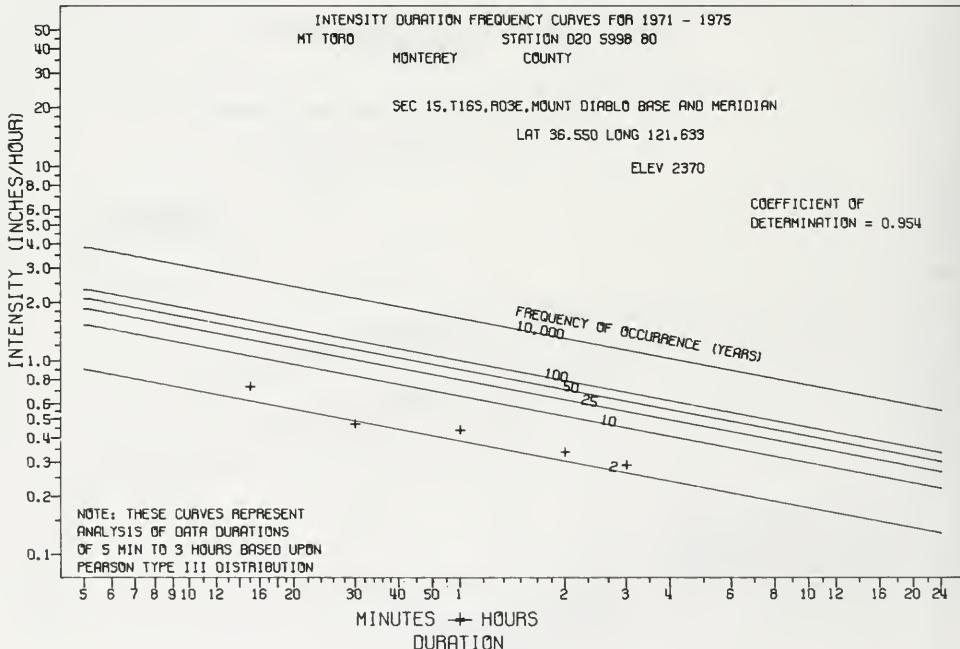
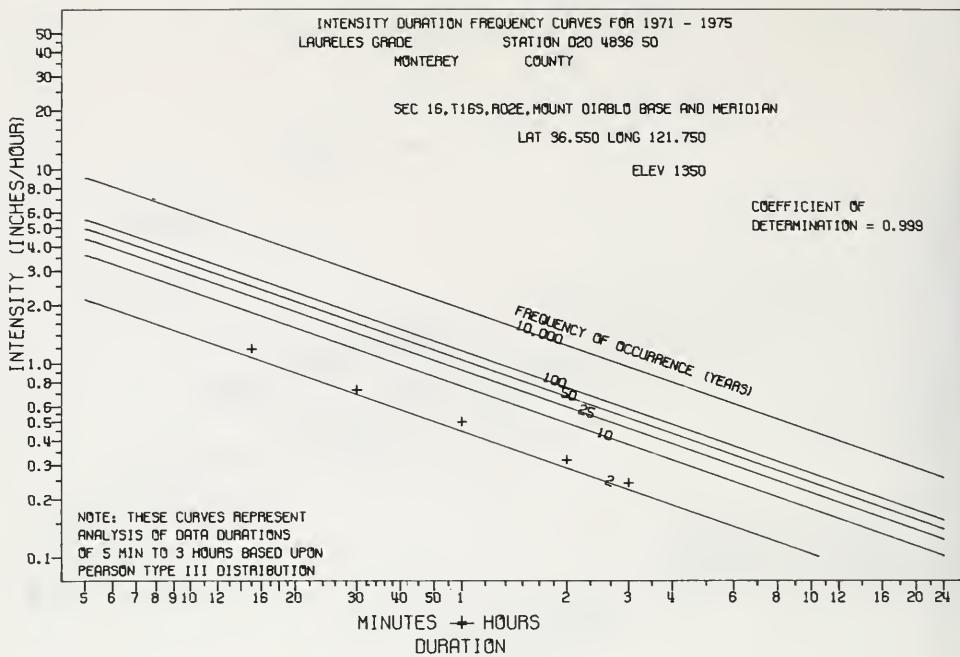


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 DEL MONTE STATION 020 2362 0
 MONTEREY COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 KING CITY STATION 020 4555 0
 MONTEREY COUNTY





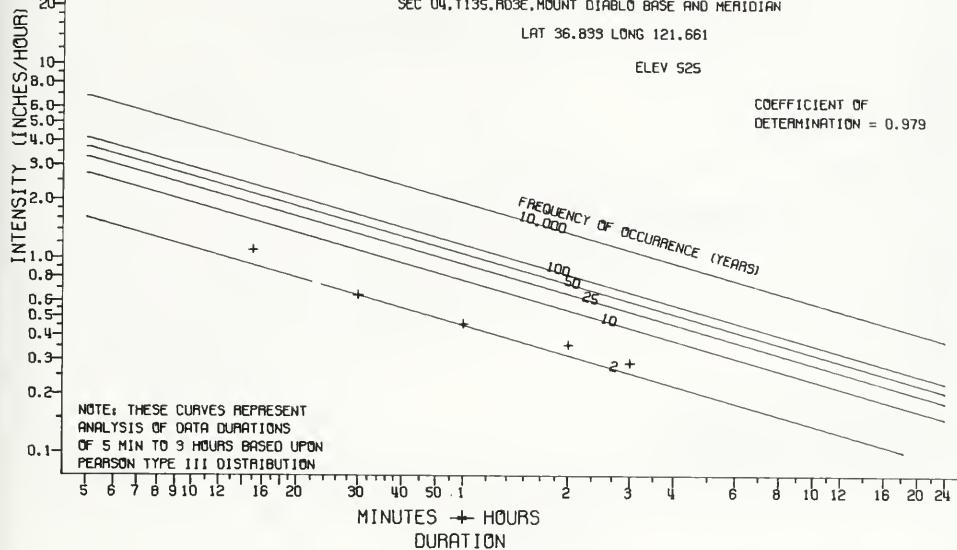
INTENSITY DURATION FREQUENCY CURVES FOR 1971 - 1975
 PRUNEDALE ECHO VALLEY STATION 020 7156 50
 MONTEREY COUNTY

SEC 04, T13S, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.893 LONG 121.661

ELEV 525

COEFFICIENT OF
 DETERMINATION = 0.979



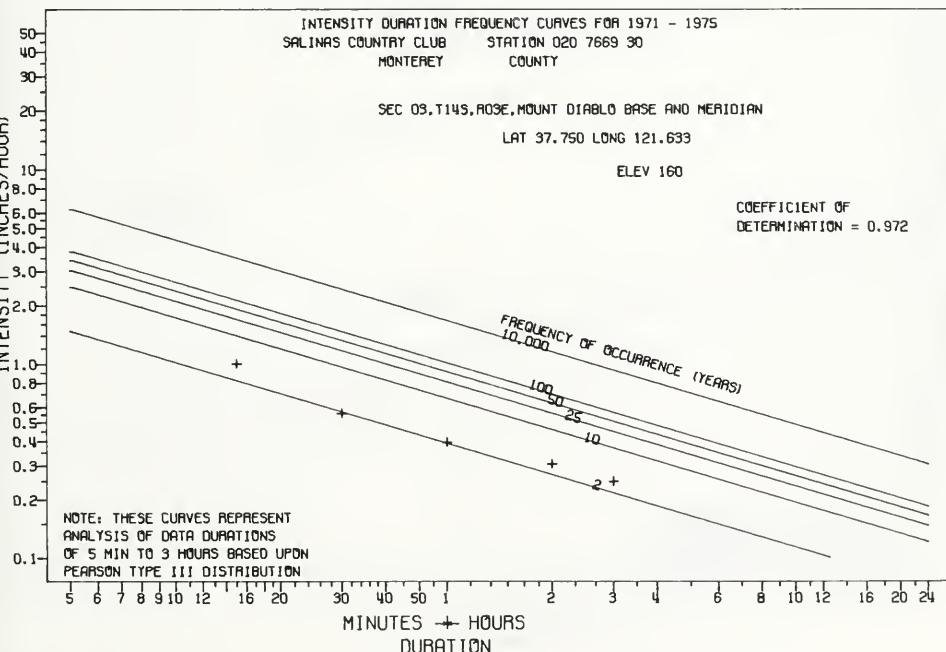
INTENSITY DURATION FREQUENCY CURVES FOR 1971 - 1975
 SALINAS COUNTRY CLUB STATION 020 7669 30
 MONTEREY COUNTY

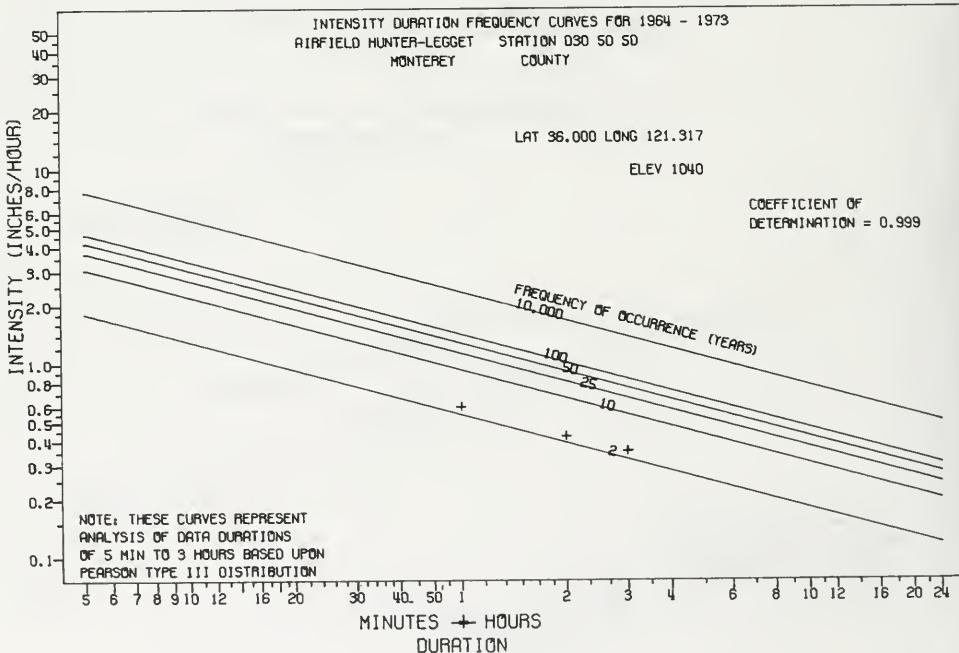
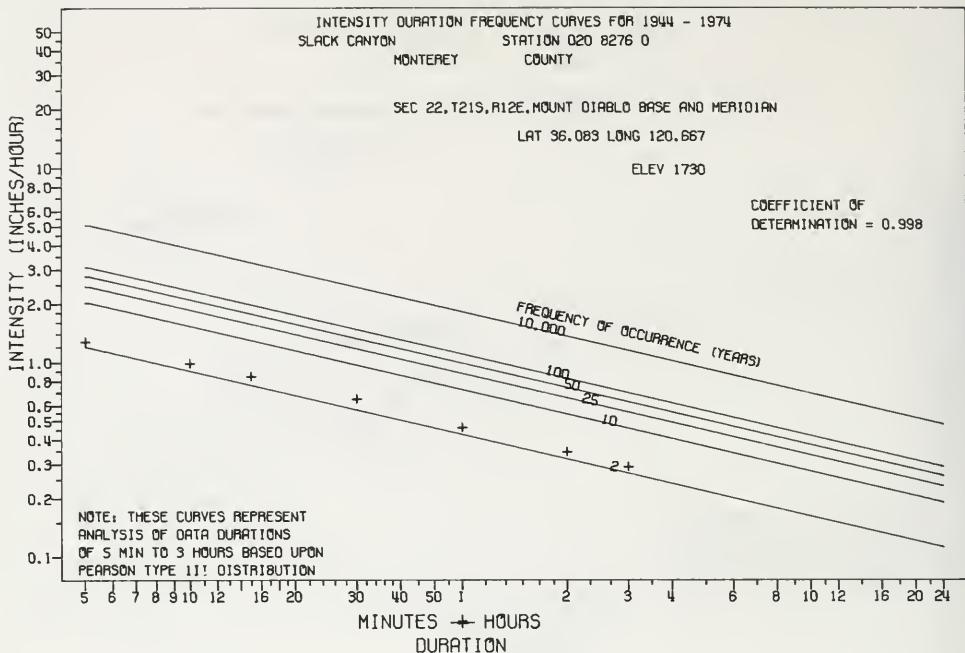
SEC 09, T14S, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.750 LONG 121.633

ELEV 160

COEFFICIENT OF
 DETERMINATION = 0.972

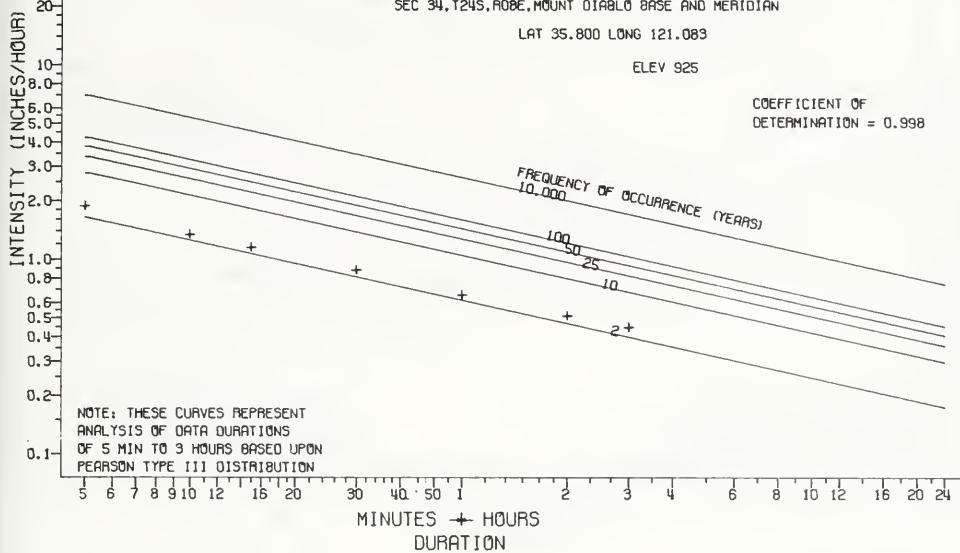




INTENSITY DURATION FREQUENCY CURVES FOR 1946 - 1974
 BRYSON STATION 030 1142 0
 MONTEREY COUNTY

SEC 34, T24S, R08E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 35.800 LONG 121.083
 ELEV 925

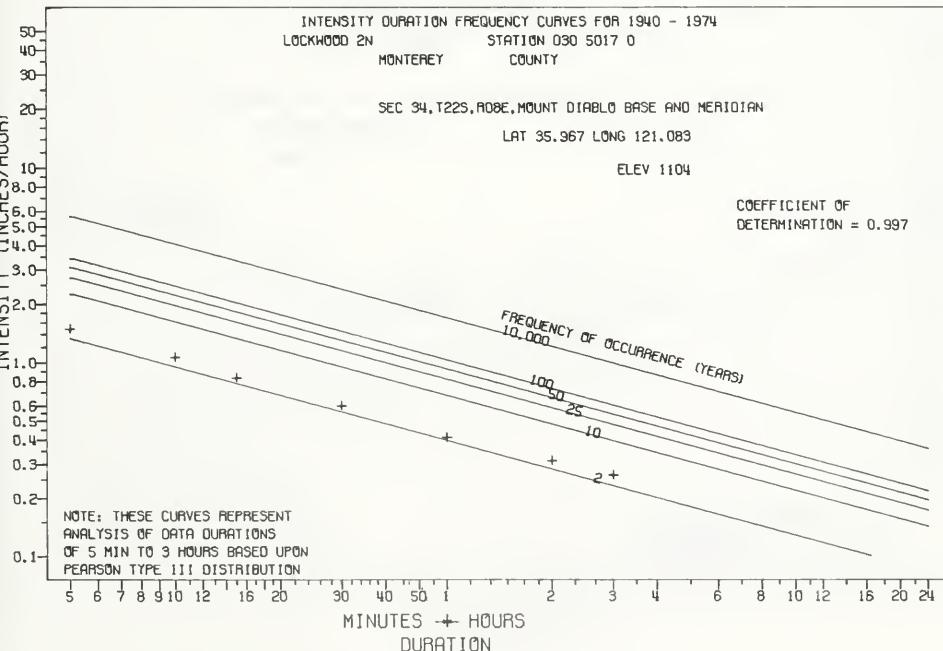
COEFFICIENT OF
 DETERMINATION = 0.998

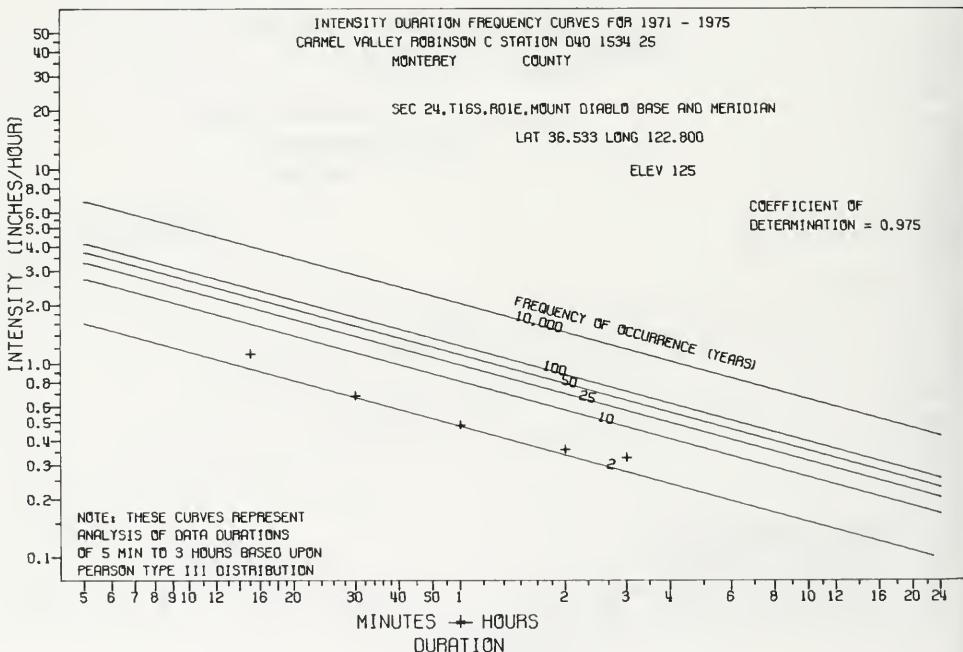
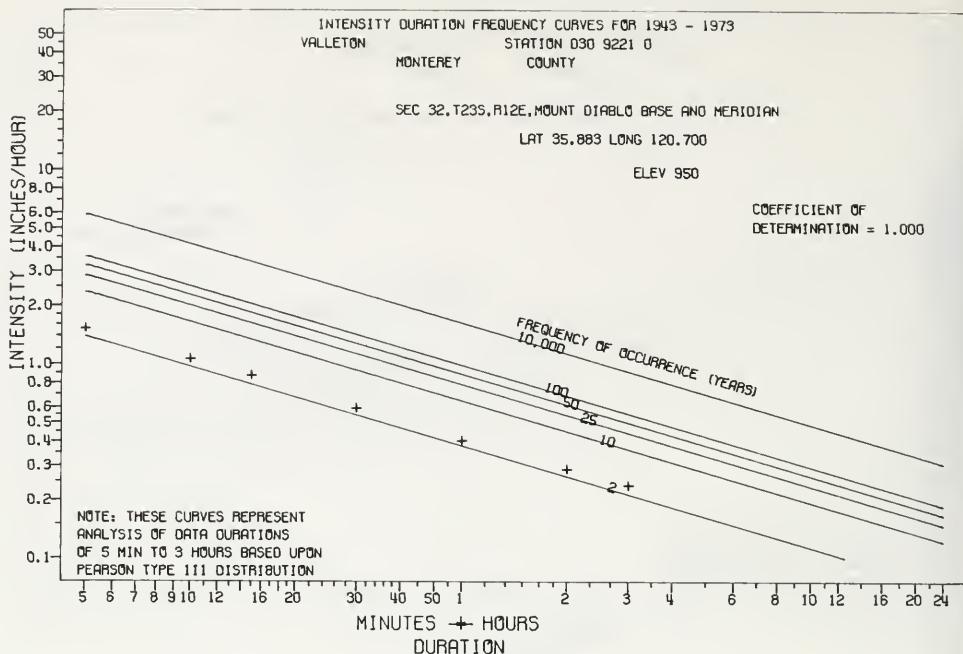


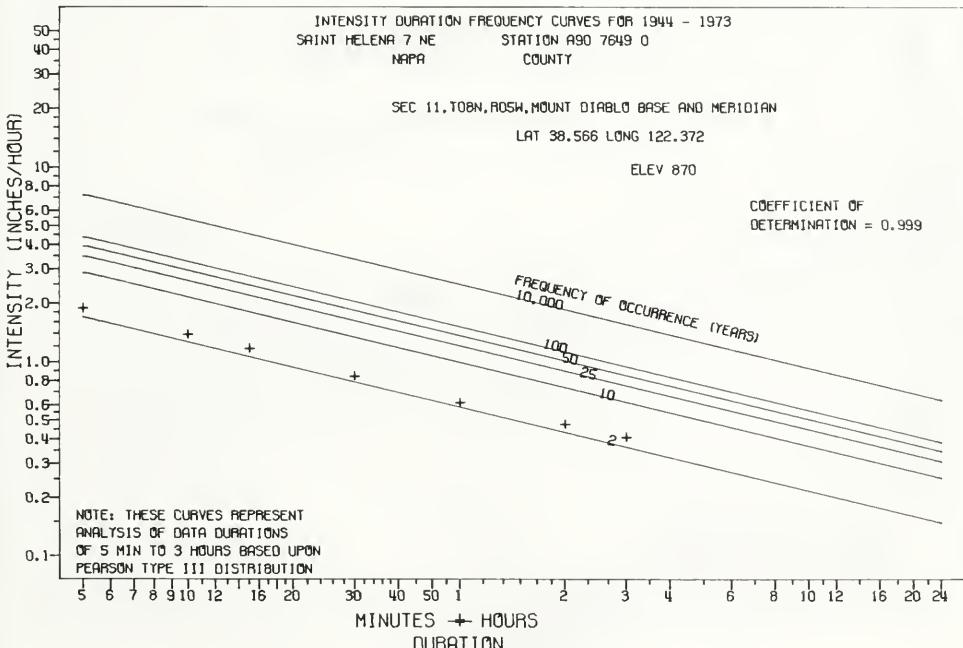
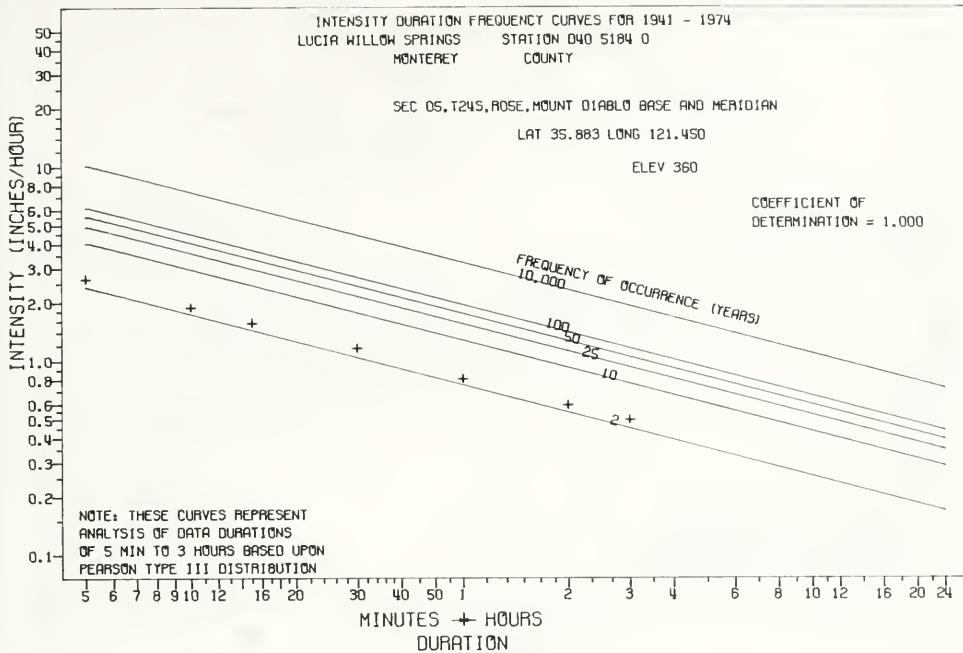
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 LOCKWOOD 2N STATION 030 5017 0
 MONTEREY COUNTY

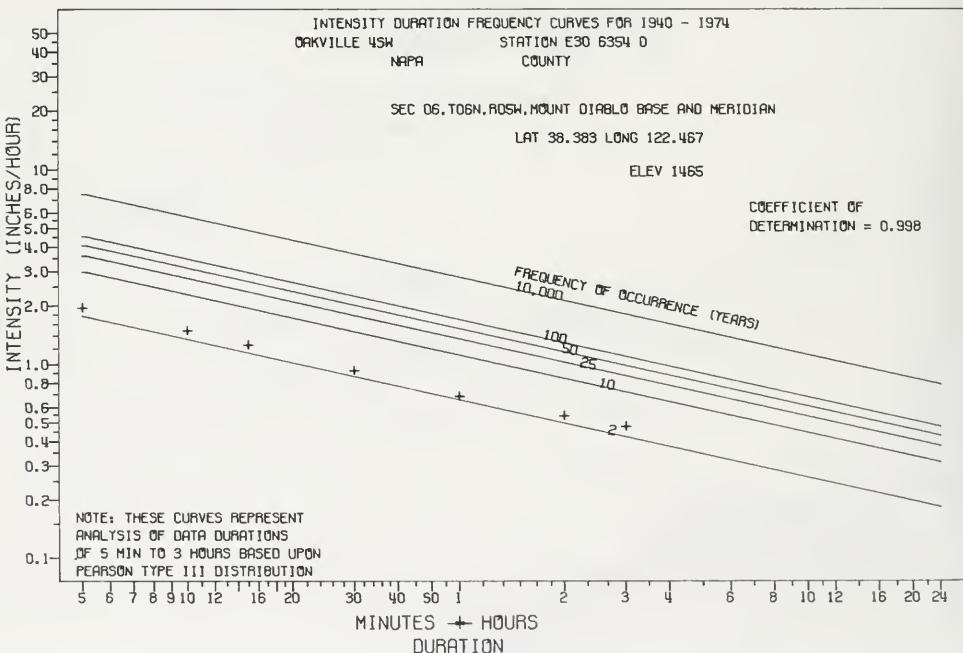
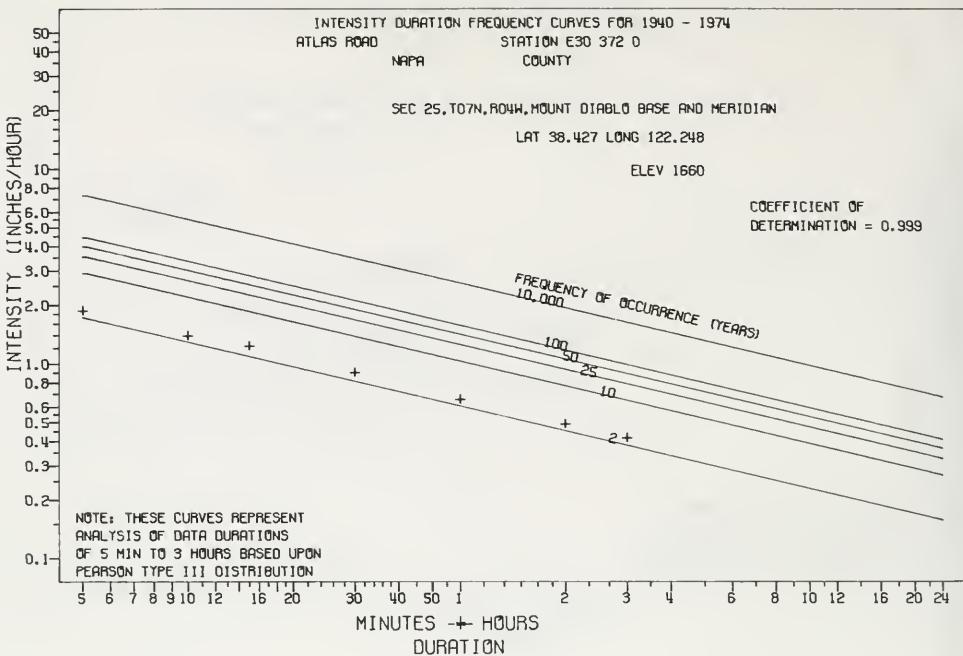
SEC 34, T22S, R08E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 35.967 LONG 121.083
 ELEV 1104

COEFFICIENT OF
 DETERMINATION = 0.997







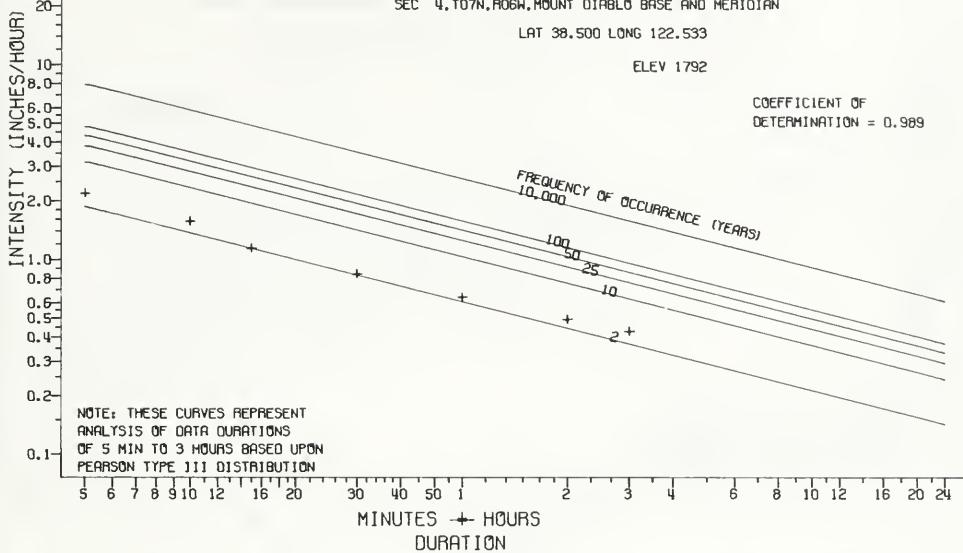


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 ST HELENA 4NSW STATION E30 7646 0
 NAPA COUNTY

SEC 4, T07N, R06E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 38.500 LONG 122.533

ELEV 1792

COEFFICIENT OF
 DETERMINATION = 0.989

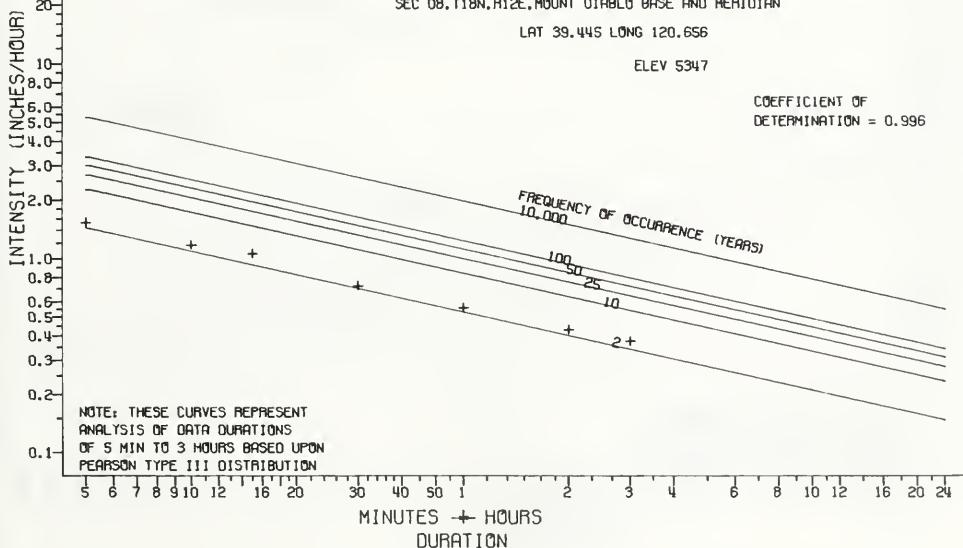


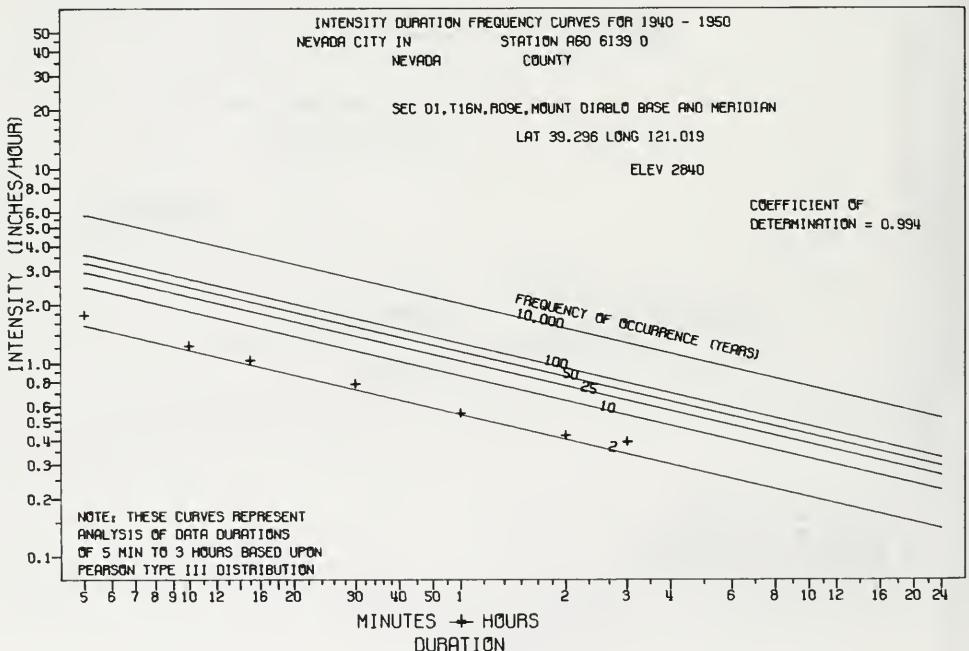
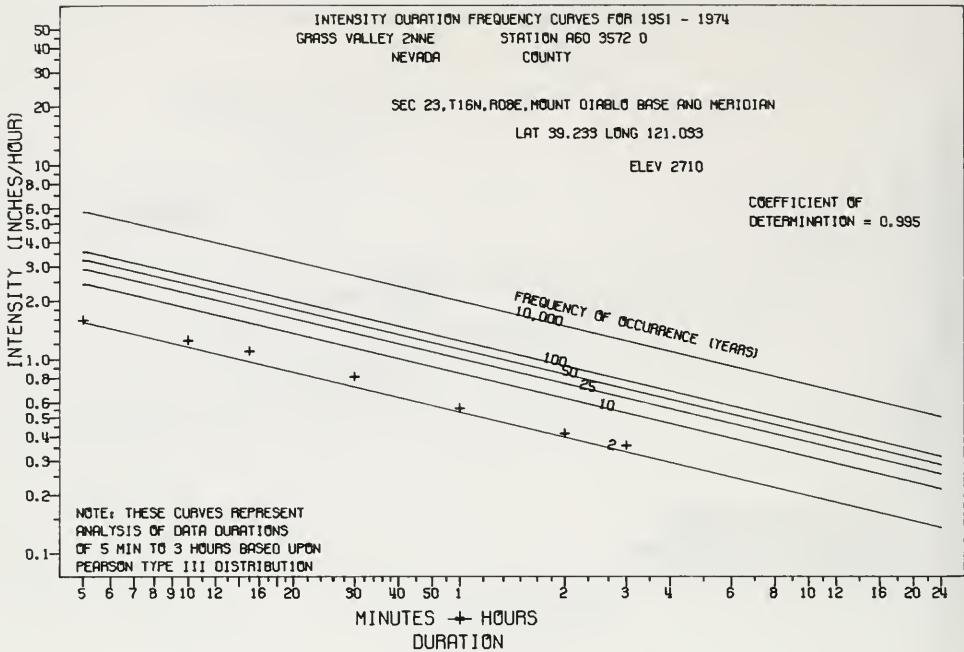
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 BOHMAN DAM STATION A60 1018 0
 NEVADA COUNTY

SEC 08, T18N, R12E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.445 LONG 120.656

ELEV 5347

COEFFICIENT OF
 DETERMINATION = 0.996



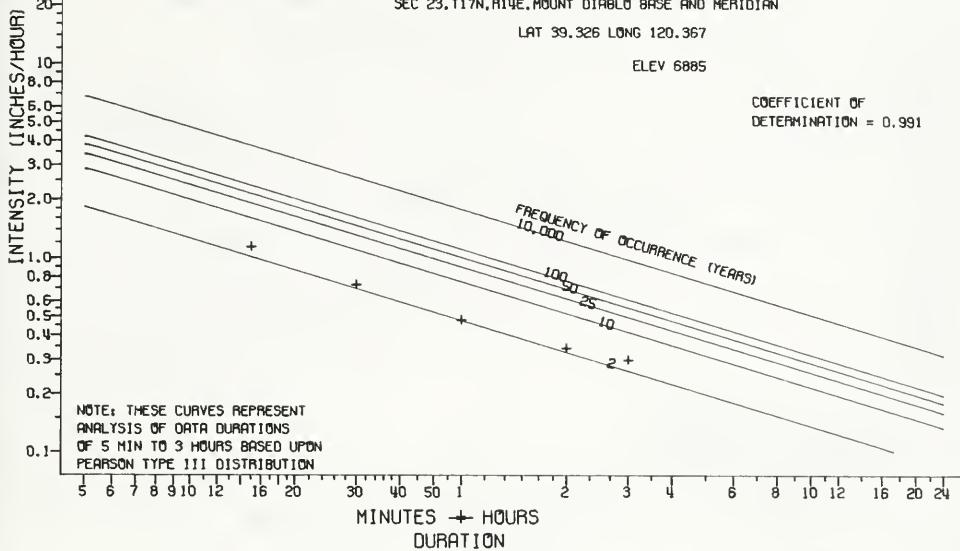


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 SODA SPRINGS STATION A70 8332 0
 NEVADA COUNTY

SEC 23, T17N, R14E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.326 LONG 120.367

ELEV 6885

COEFFICIENT OF
 DETERMINATION = 0.991

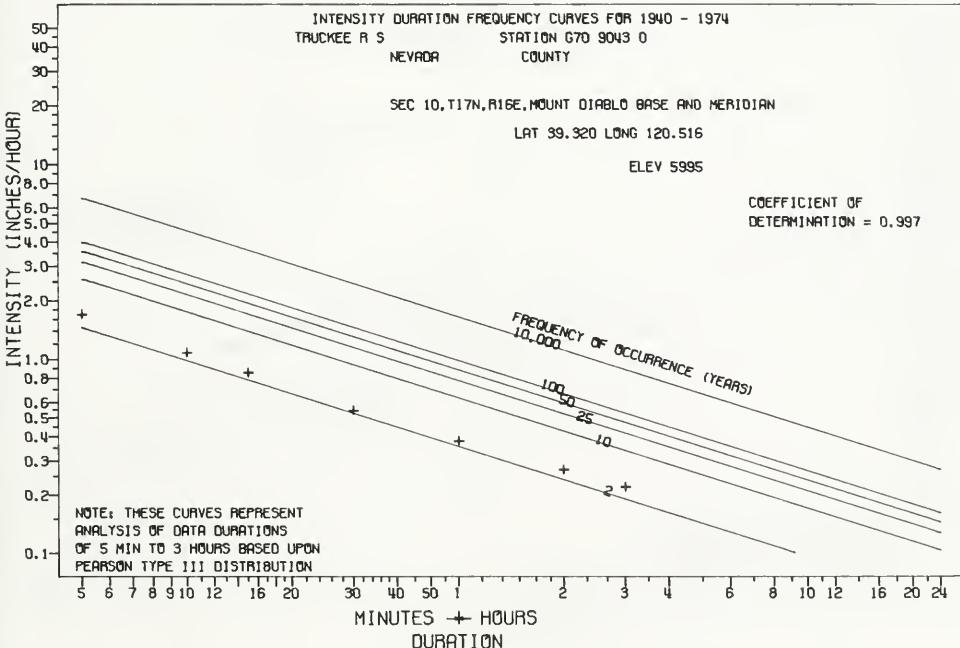


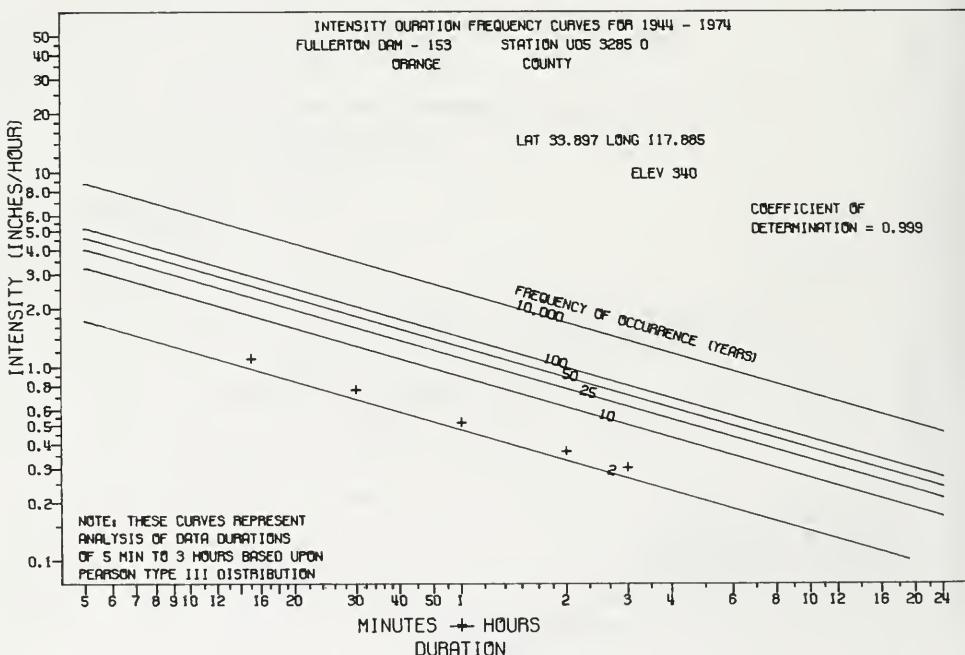
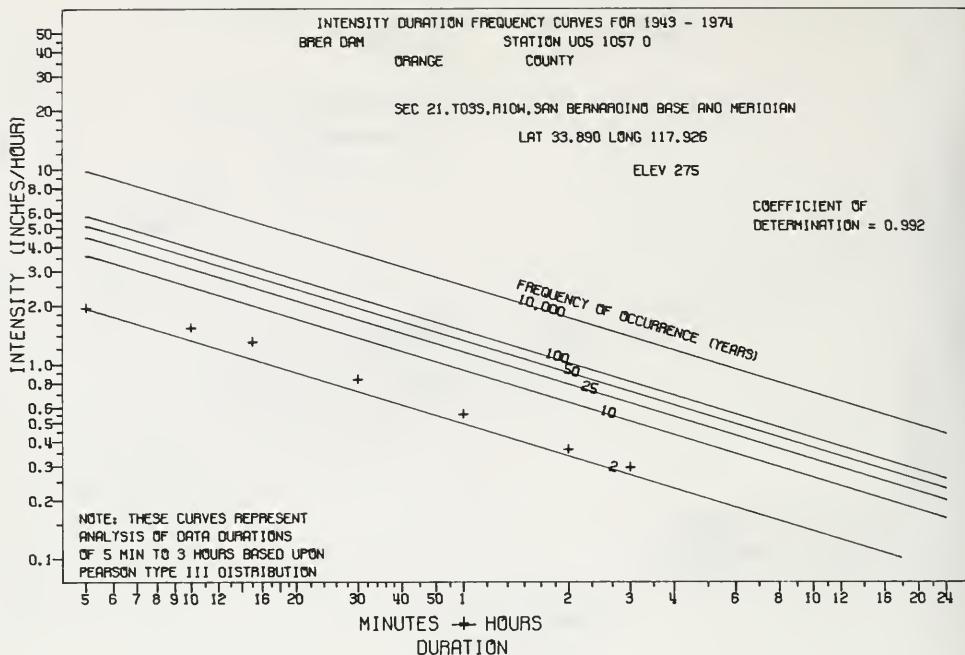
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 TRUCKEE R S STATION C70 9043 0
 NEVADA COUNTY

SEC 10, T17N, R14E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 39.320 LONG 120.516

ELEV 5995

COEFFICIENT OF
 DETERMINATION = 0.997



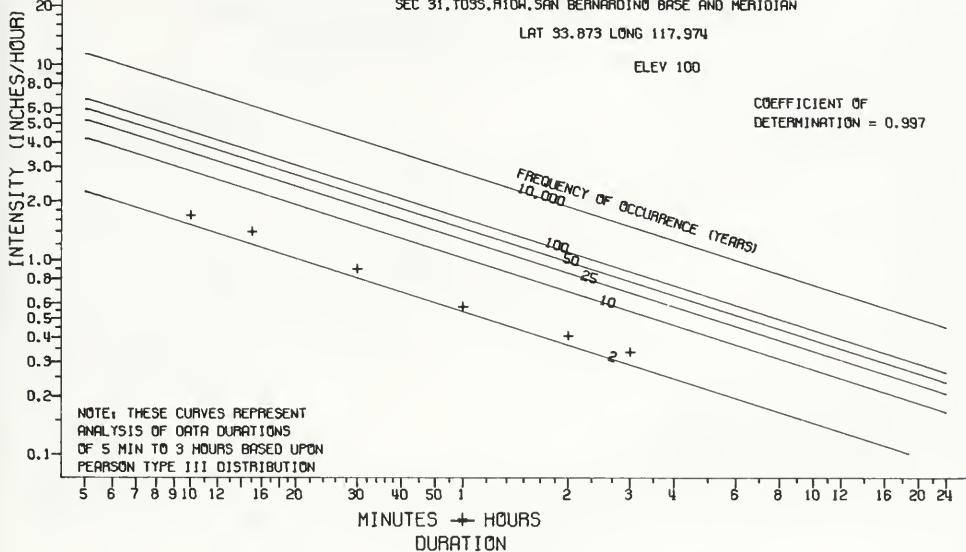


INTENSITY DURATION FREQUENCY CURVES FOR 1937 - 1973
 FULLERTON AIRPORT 126 STATION UDS 3209 3
 ORANGE COUNTY

SEC 31, T03S, R12W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 33.873 LONG 117.974

ELEV 100

COEFFICIENT OF
 DETERMINATION = 0.997

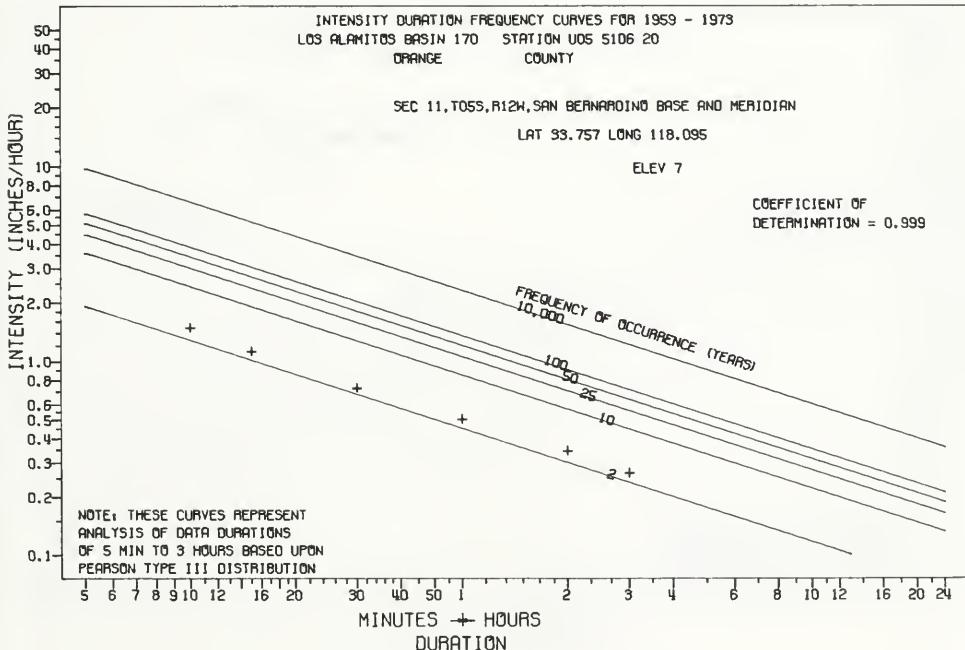


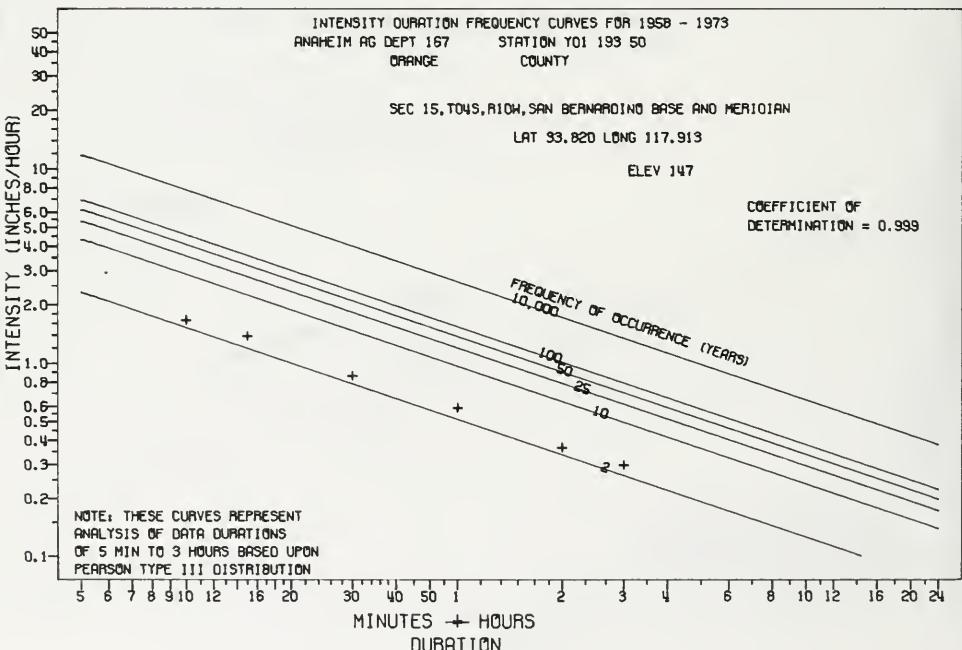
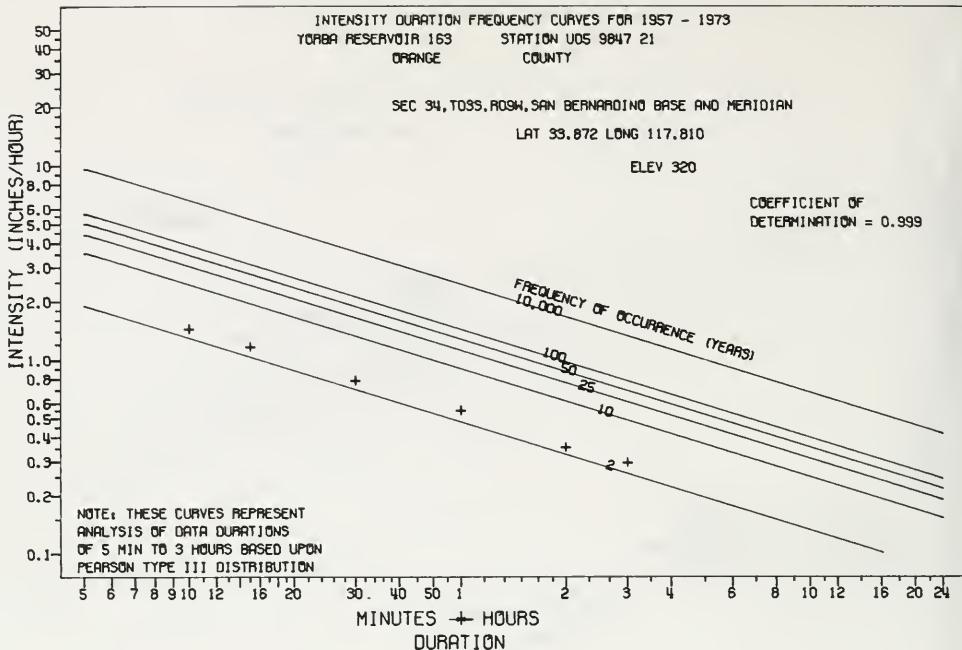
INTENSITY DURATION FREQUENCY CURVES FOR 1959 - 1973
 LOS ALAMITOS BASIN 170 STATION UDS 5106 20
 ORANGE COUNTY

SEC 11, T03S, R12W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 33.757 LONG 118.095

ELEV 7

COEFFICIENT OF
 DETERMINATION = 0.999





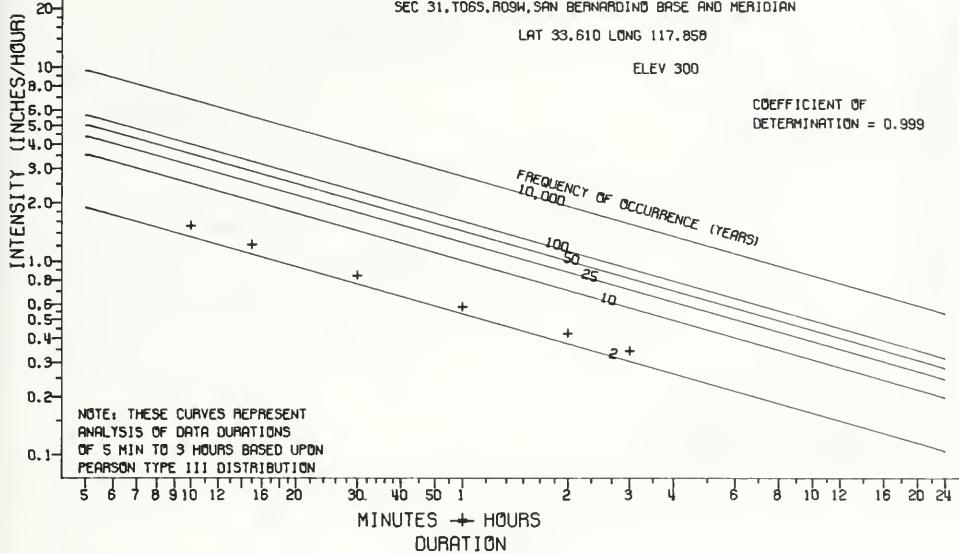
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1973
 CORONA DEL MAR 169 STATION Y01 2031 20
 ORANGE COUNTY

SEC 31, TD6S, R09W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.610 LONG 117.858

ELEV 300

COEFFICIENT OF
 DETERMINATION = 0.999



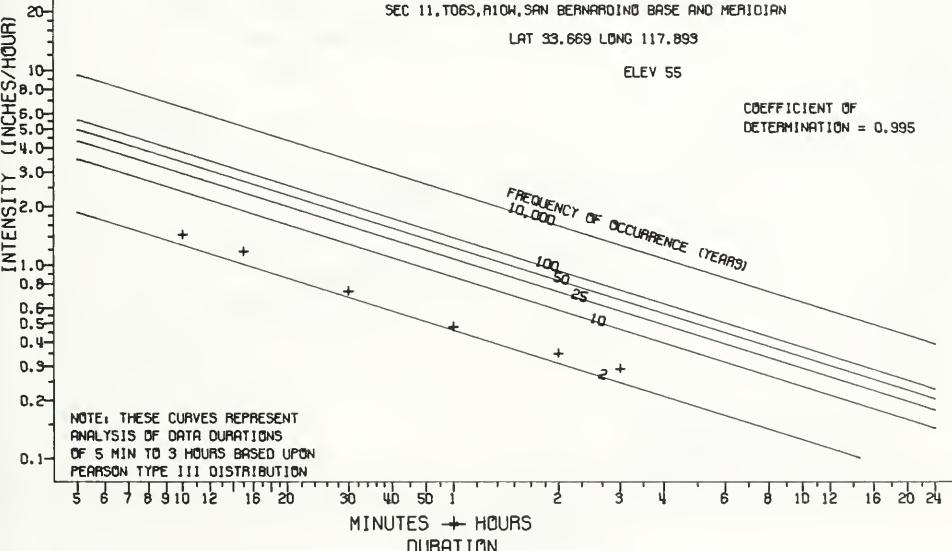
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1973
 COSTA MESA 165 STATION Y01 2060 1
 ORANGE COUNTY

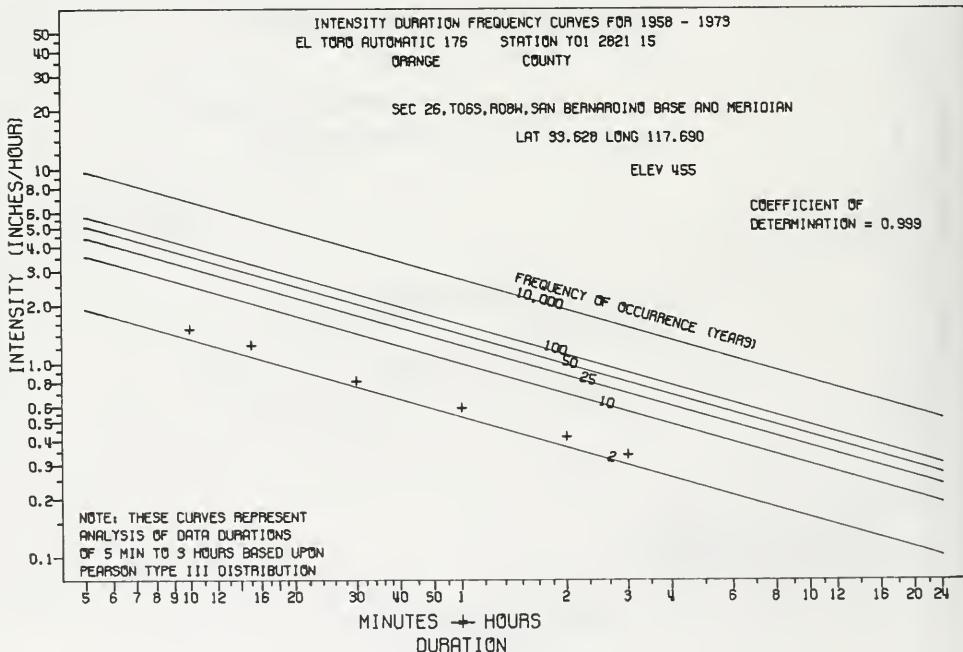
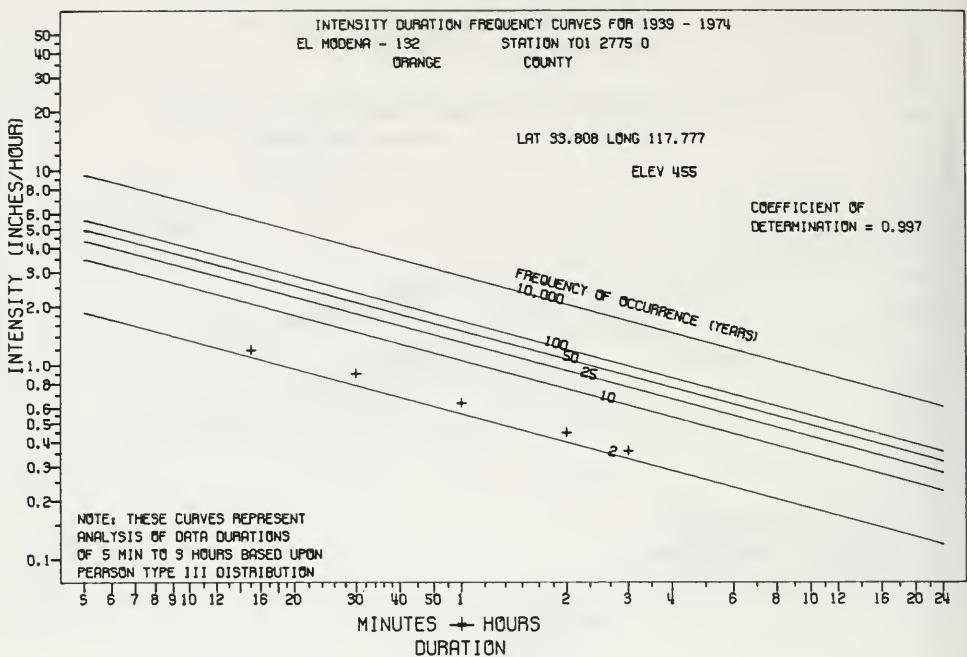
SEC 11, TD6S, R10W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.669 LONG 117.899

ELEV 55

COEFFICIENT OF
 DETERMINATION = 0.995



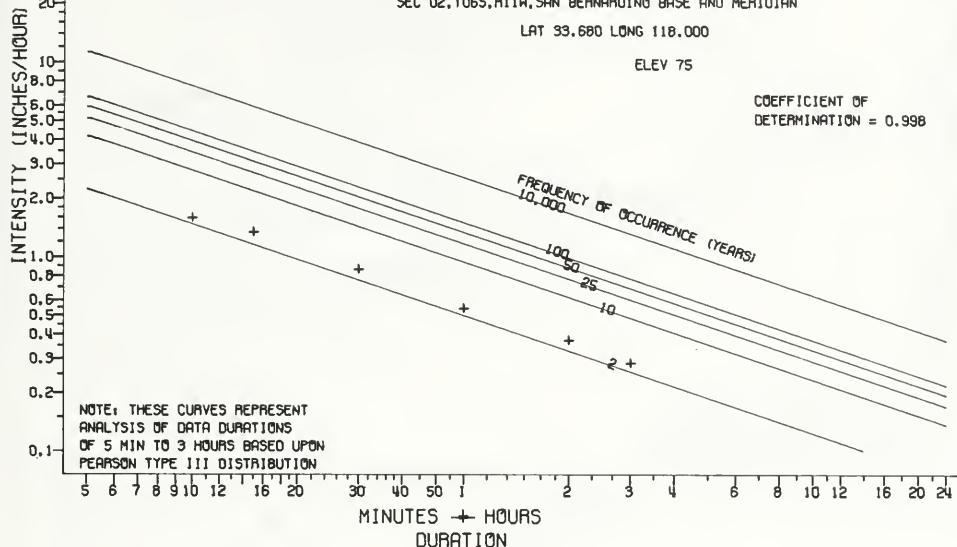


INTENSITY DURATION FREQUENCY CURVES FOR 1959 - 1973
HUNTINGTON BEACH 135 STATION Y01 4173 21
ORANGE COUNTY

SEC 02, T06S, R11W, SAN BERNARDINO BASE AND MERIDIAN
LAT 33.680 LONG 118.000

ELEV 75

COEFFICIENT OF
DETERMINATION = 0.998

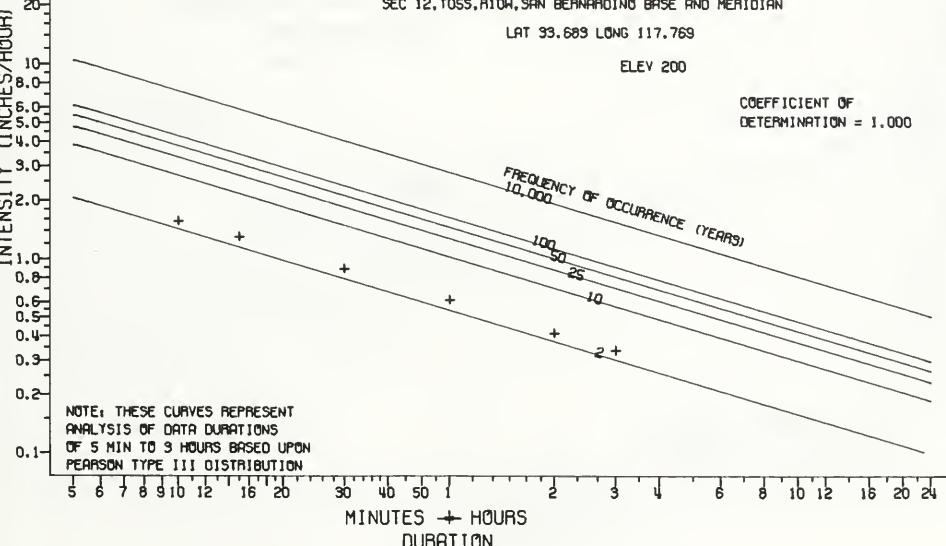


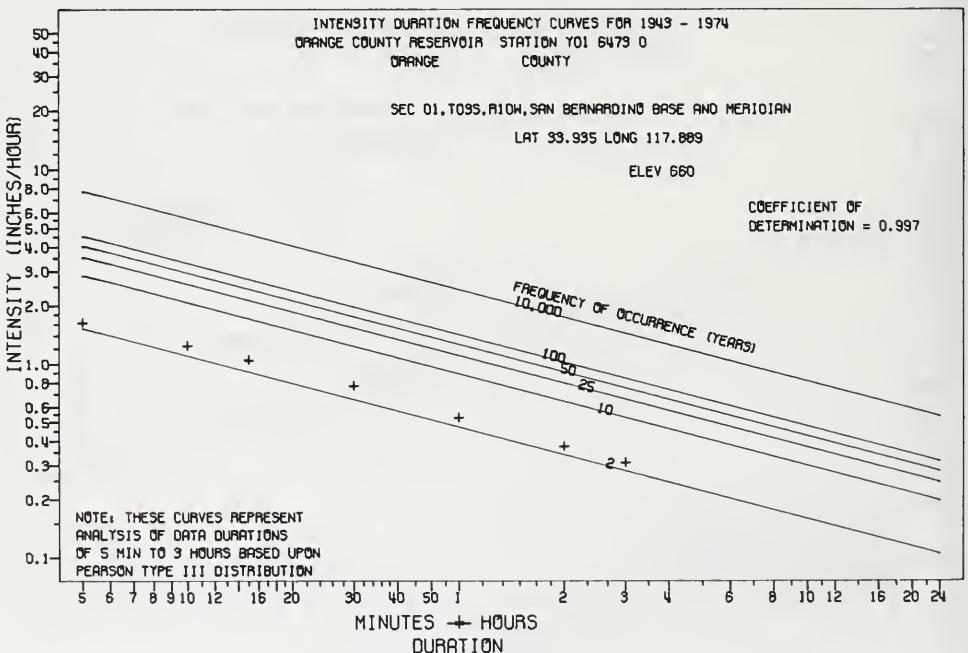
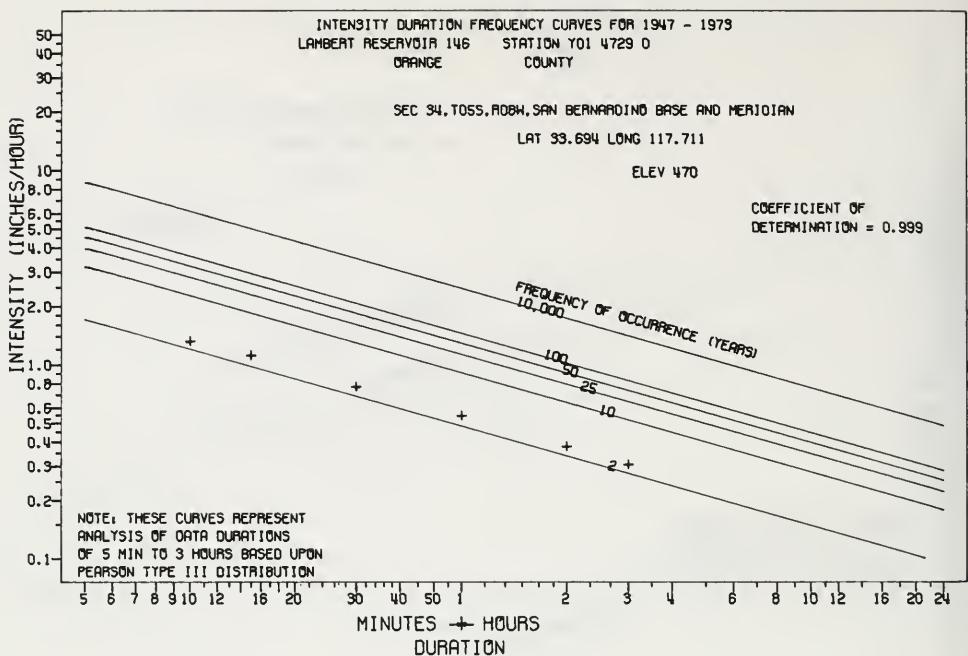
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1973
IRVINE EVAPORATION 125 STATION Y01 4300 15
ORANGE COUNTY

SEC 12, T05S, R10W, SAN BERNARDINO BASE AND MERIDIAN
LAT 33.683 LONG 117.769

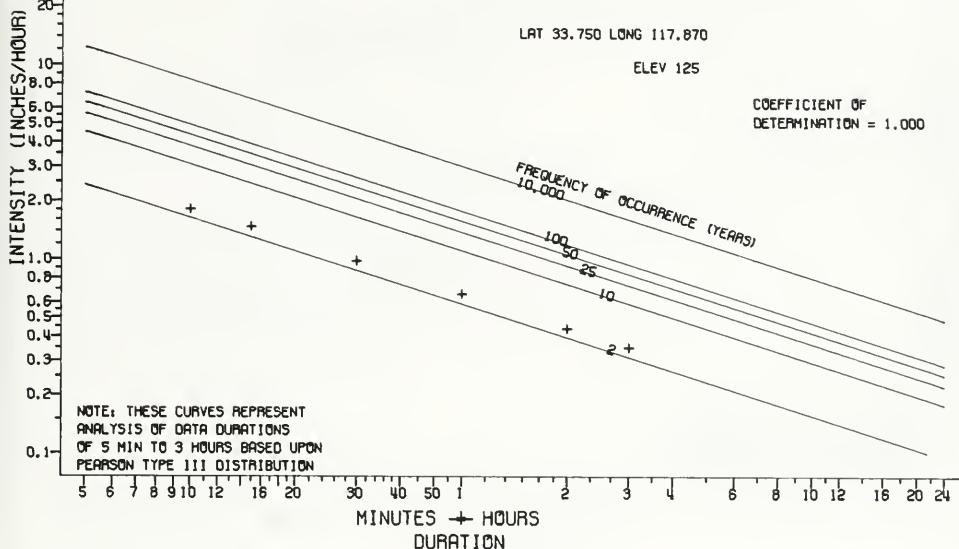
ELEV 200

COEFFICIENT OF
DETERMINATION = 1.000

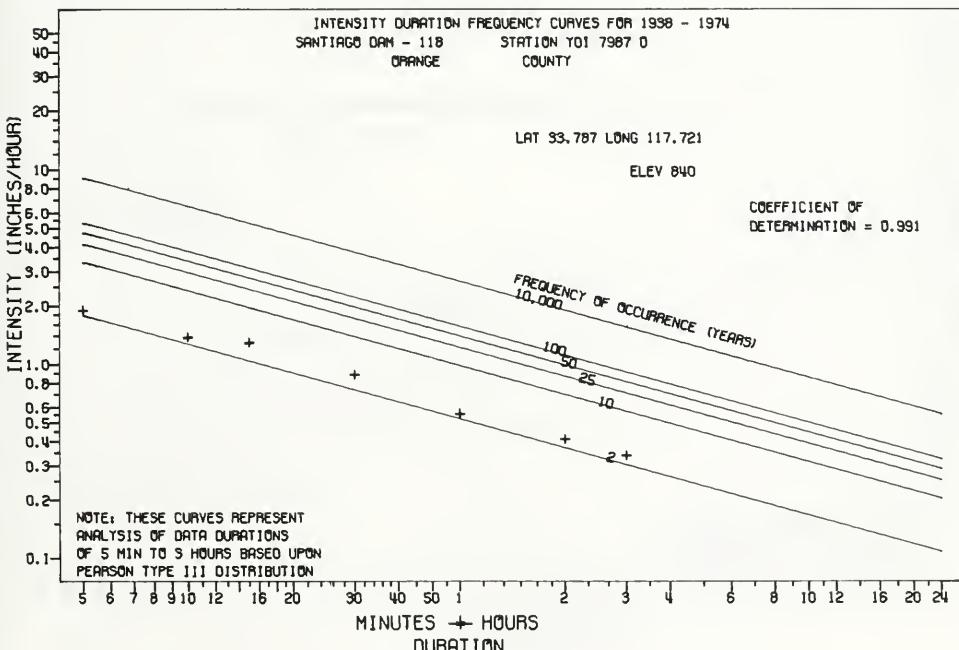


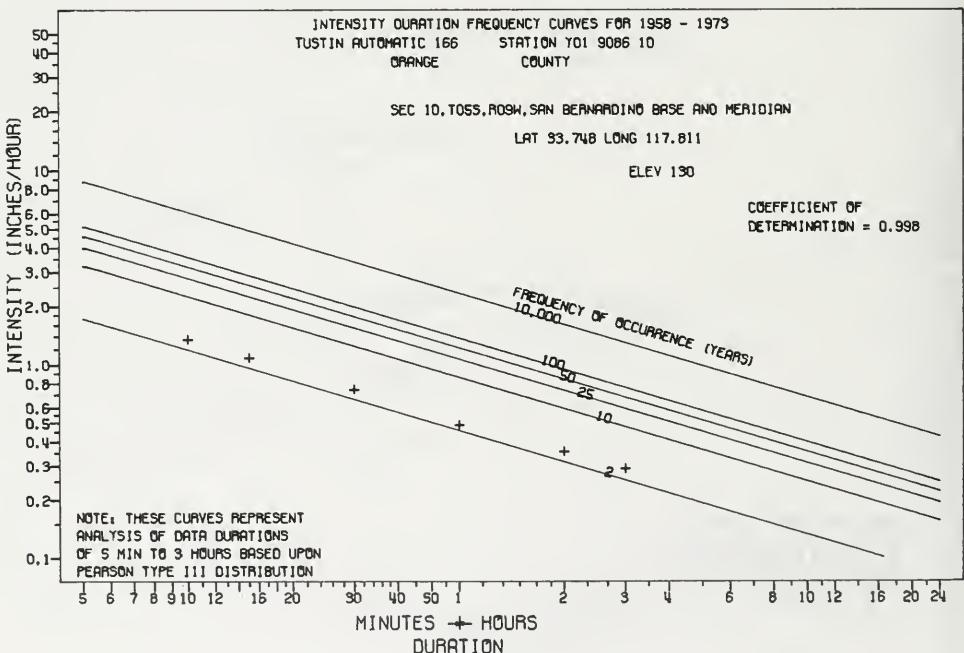
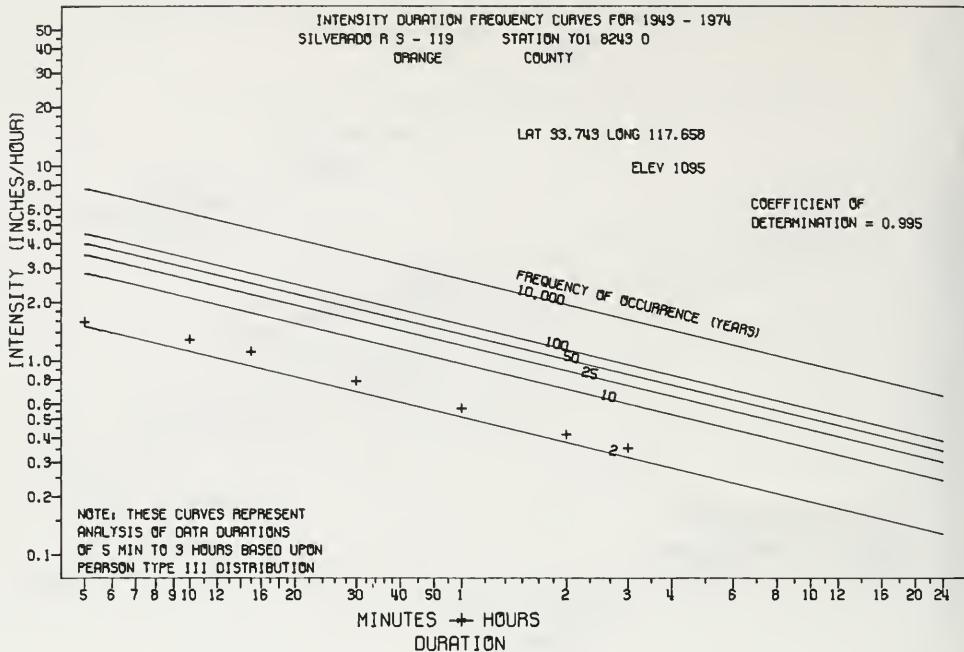


INTENSITY DURATION FREQUENCY CURVES FOR 1933 - 1973
 SANTA ANA CCFCD 121 STATION Y01 7888 1
 ORANGE COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1938 - 1974
 SANTIAGO DAM - 118 STATION Y01 7987 0
 ORANGE COUNTY





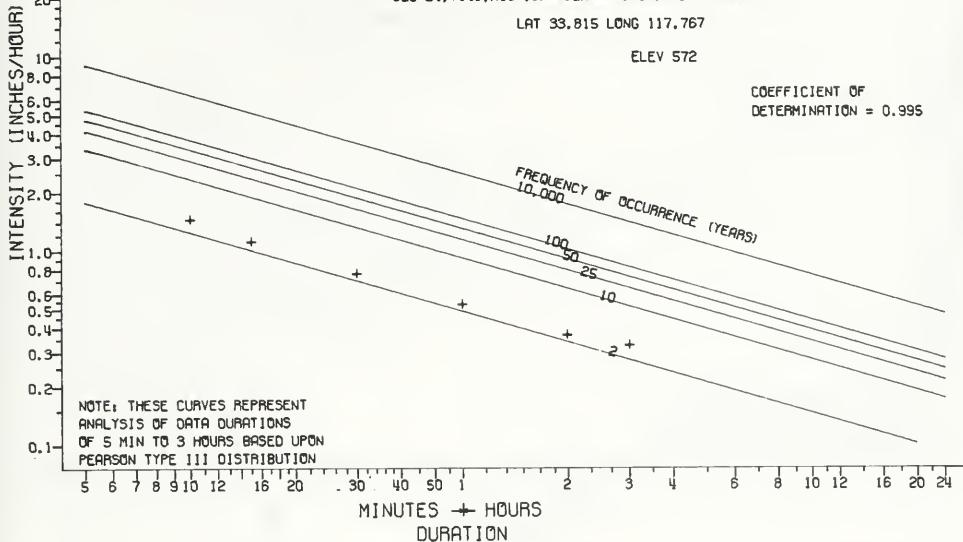
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1973
 VILLA PARK DAM 173 STATION Y01 9338 3
 ORANGE COUNTY

SEC 24, T04S, R09W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.815 LONG 117.767

ELEV 572

COEFFICIENT OF
 DETERMINATION = 0.995



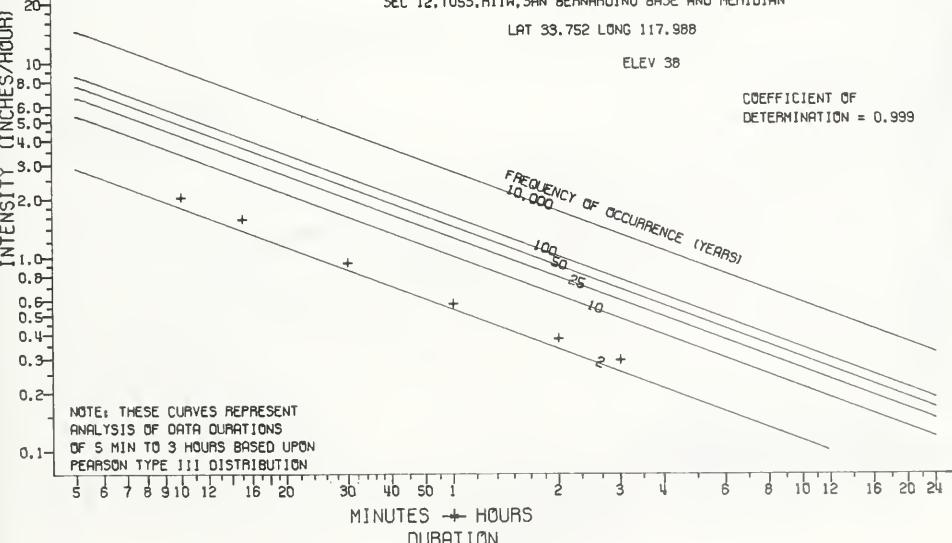
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1973
 WESTMINSTER 162 STATION Y01 9569 11
 ORANGE COUNTY

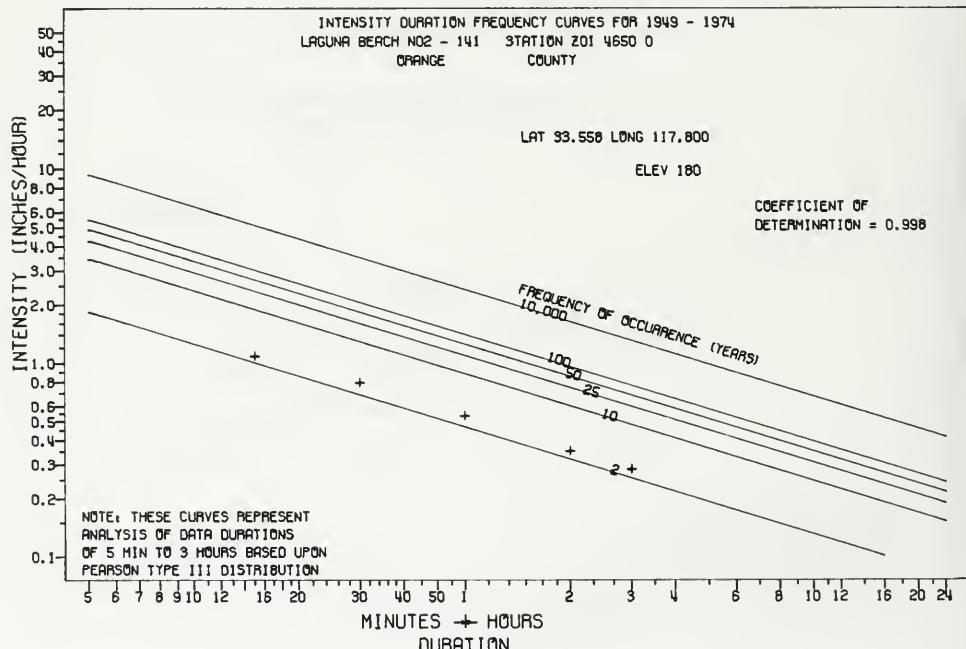
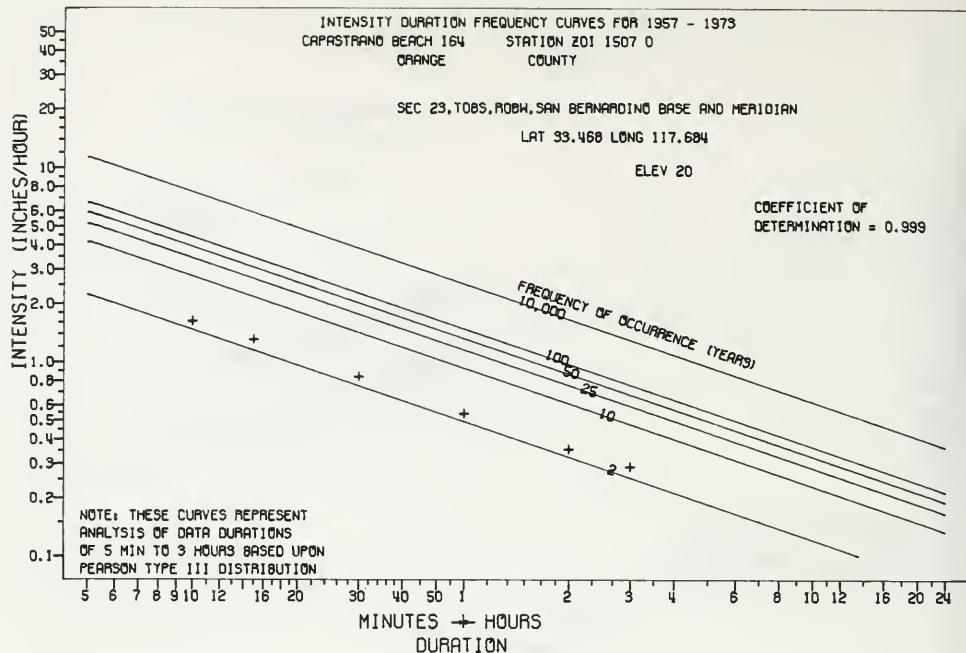
SEC 12, T05S, R11W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.752 LONG 117.988

ELEV 38

COEFFICIENT OF
 DETERMINATION = 0.999



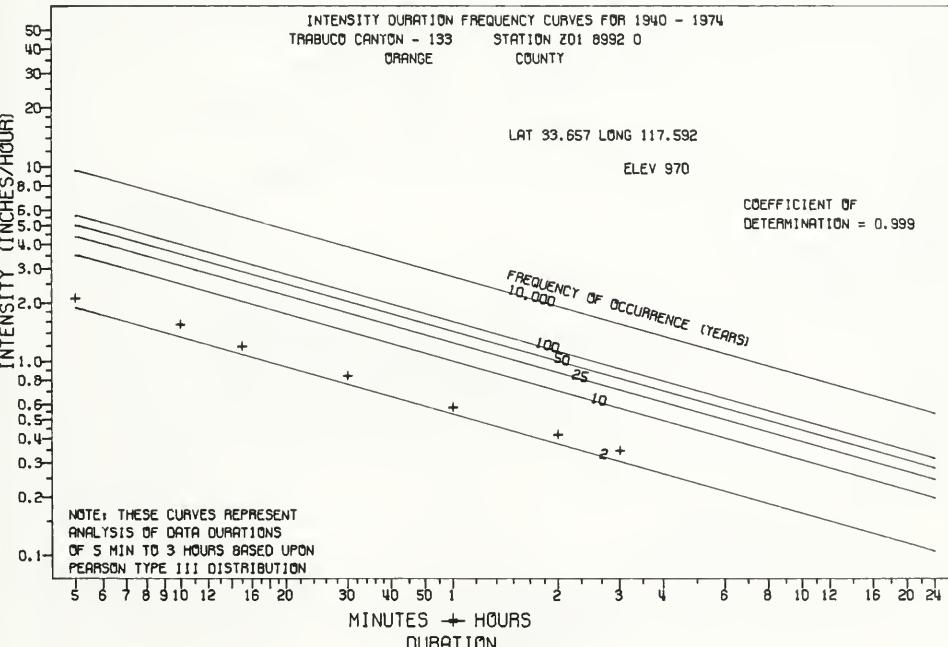
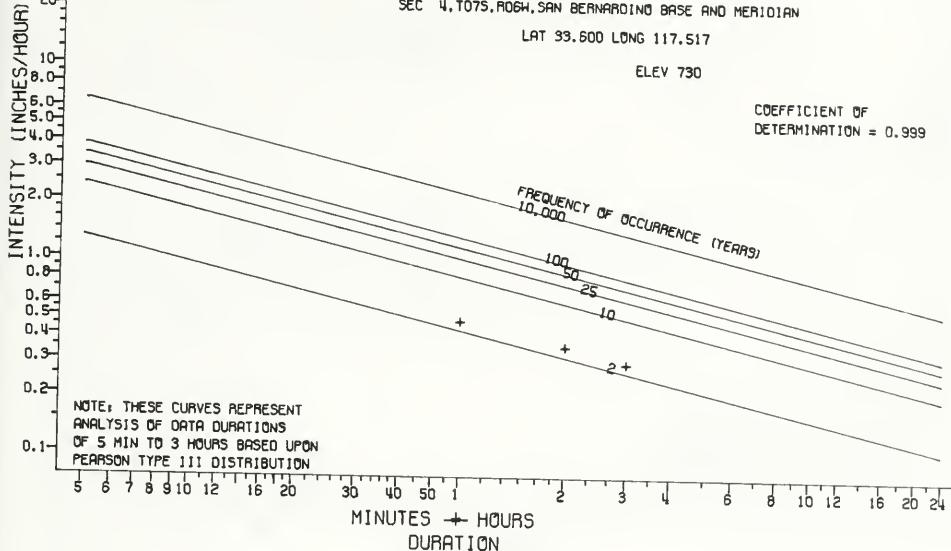


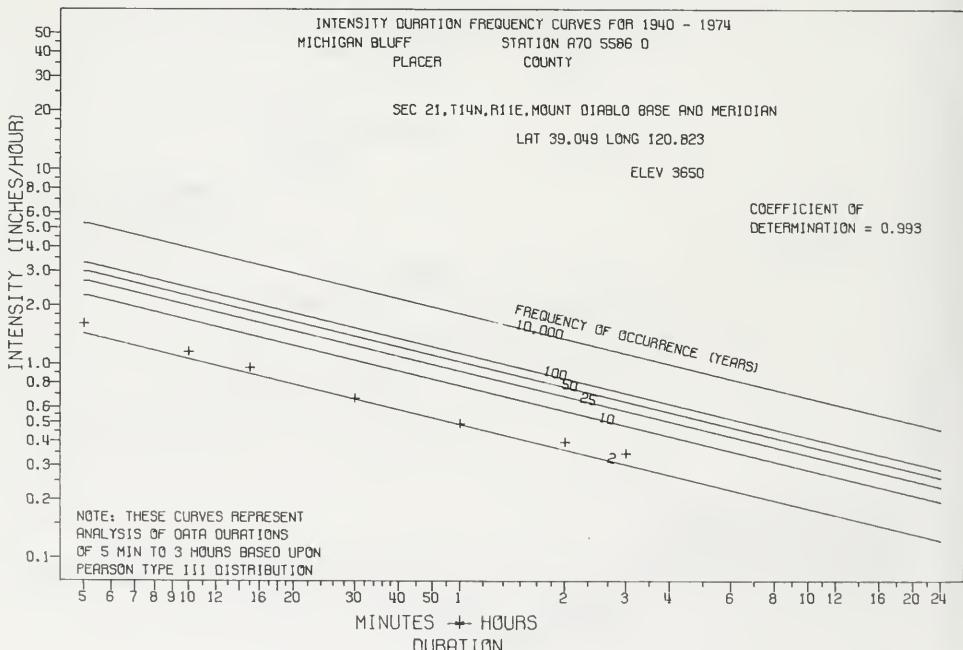
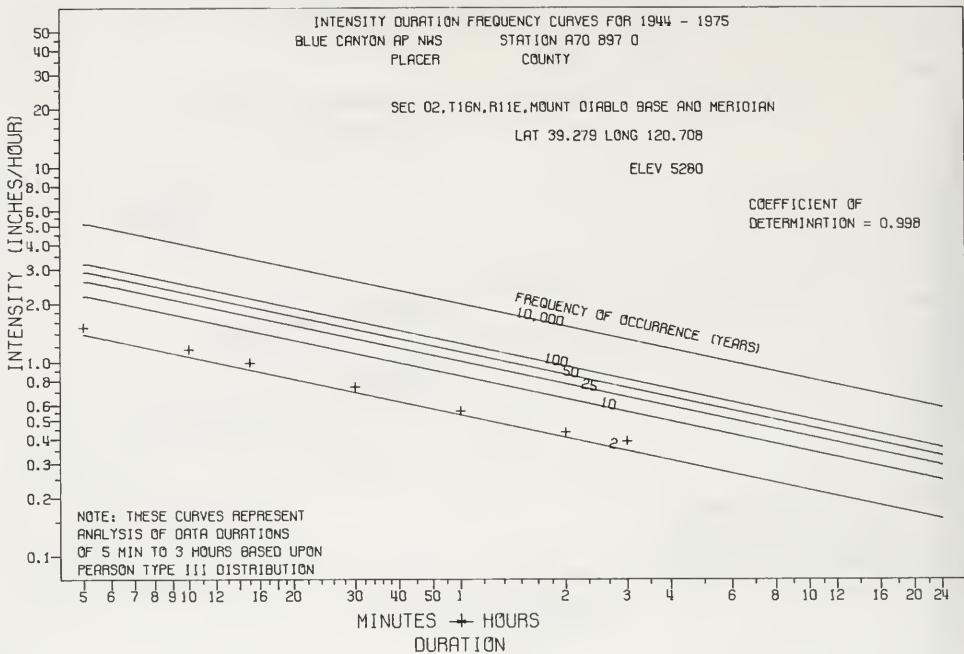
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1970
 SAN JUAN GUARD STATION STATION Z01 7837 0
 ORANGE COUNTY

SEC 4, T07S, R06W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 33.600 LONG 117.517

ELEV 730

COEFFICIENT OF
 DETERMINATION = 0.999





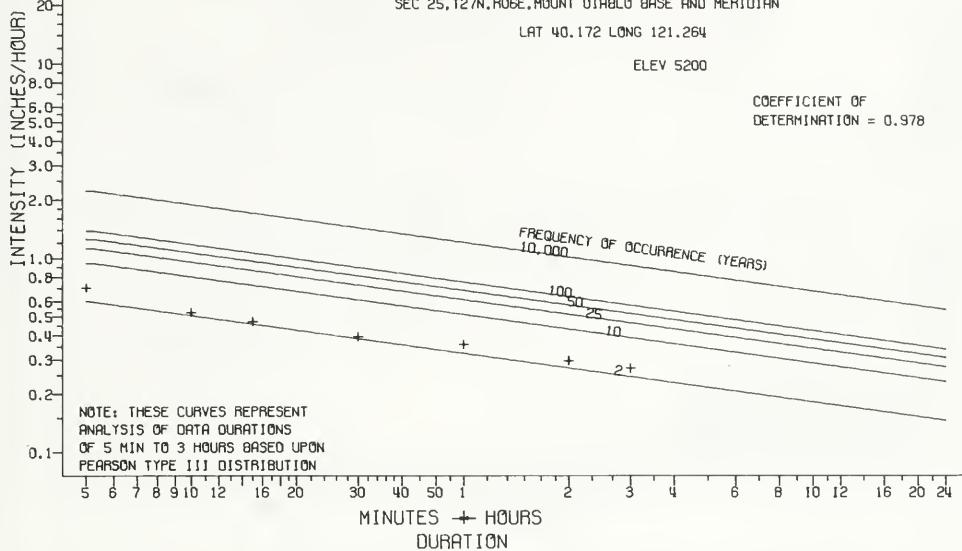
INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
 ALMANOR OC 4 STATION A50 128 50
 PLUMAS COUNTY

SEC 25, T27N, R06E, MOUNT DIABLO BASE AND MERIDIAN

LAT 40.172 LONG 121.284

ELEV 5200

COEFFICIENT OF DETERMINATION = 0.978



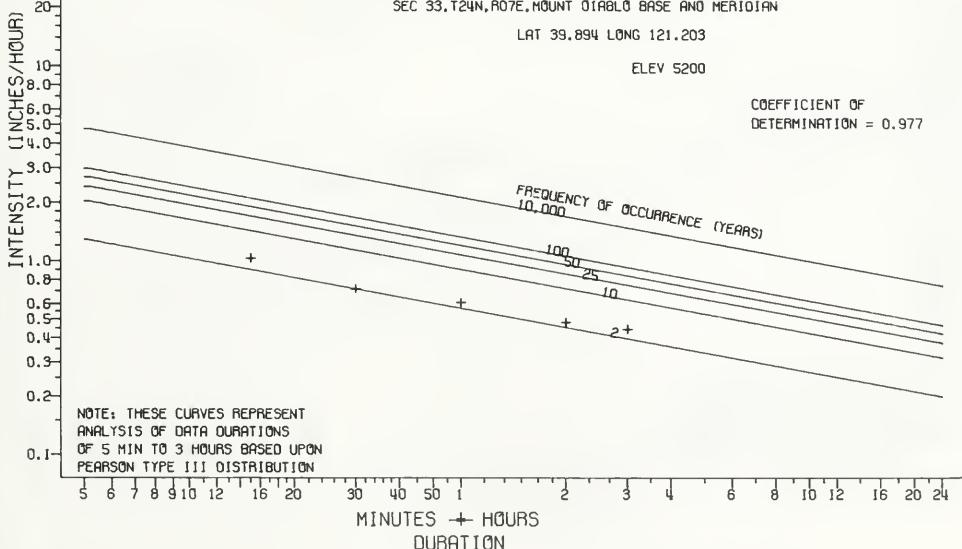
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1968
 BUCKS LAKE STATION A50 1161 0
 PLUMAS COUNTY

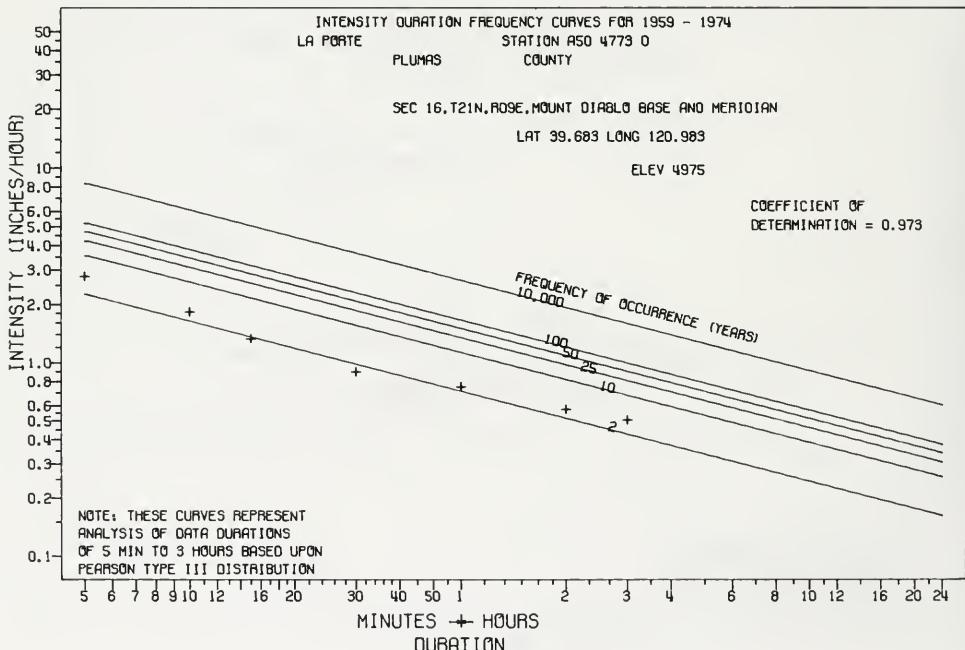
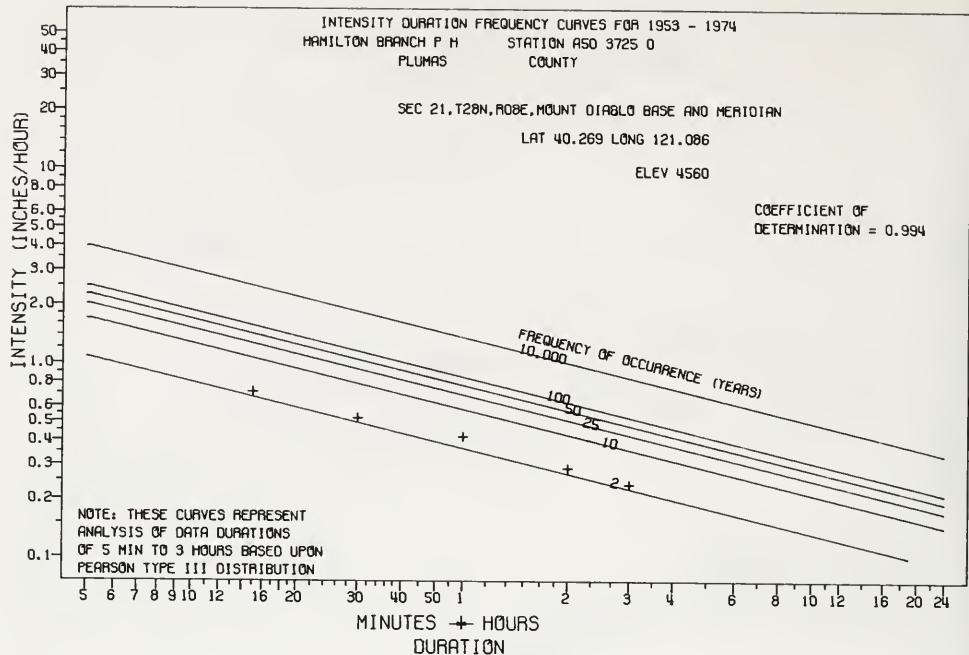
SEC 33, T24N, R07E, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.894 LONG 121.203

ELEV 5200

COEFFICIENT OF DETERMINATION = 0.977





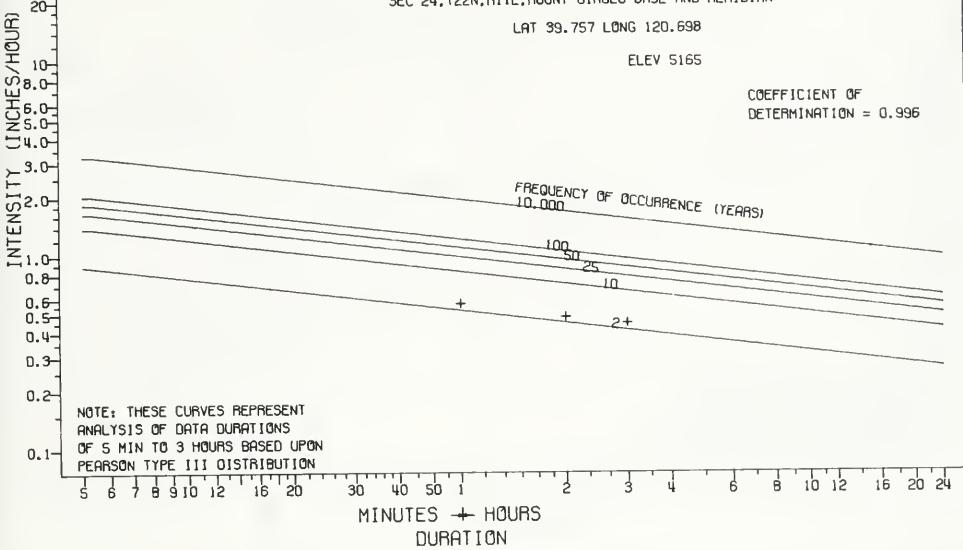
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 PLUMAS EUREKA ST PARK STATION ASO 6998 0
 PLUMAS COUNTY

SEC 24, T22N, R11E, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.757 LONG 120.698

ELEV 5165

COEFFICIENT OF
 DETERMINATION = 0.996



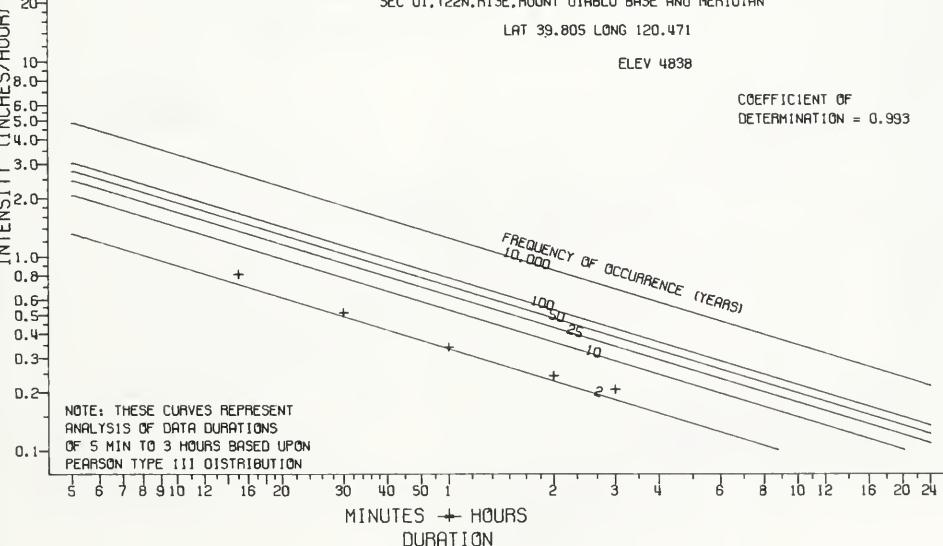
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1973
 PORTOLA STATION ASO 7085 0
 PLUMAS COUNTY

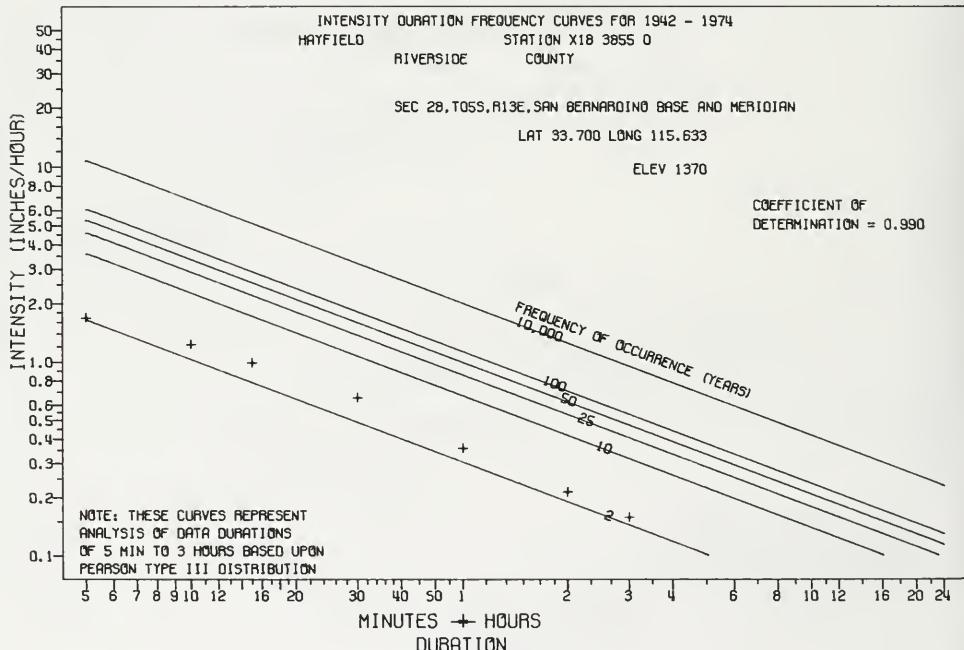
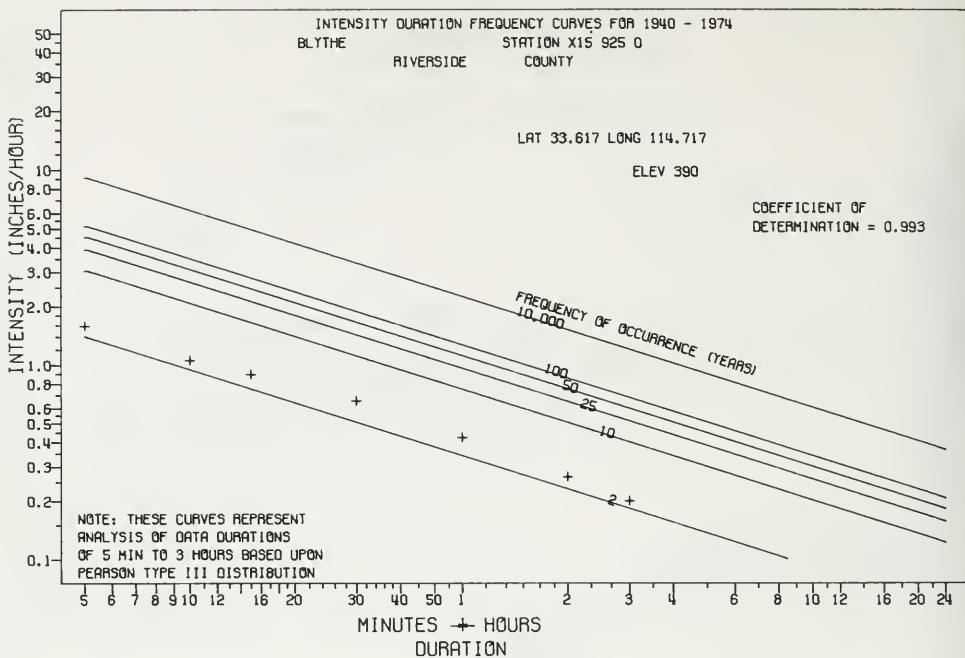
SEC 01, T22N, R13E, MOUNT DIABLO BASE AND MERIDIAN

LAT 39.805 LONG 120.471

ELEV 4838

COEFFICIENT OF DETERMINATION = 0.993



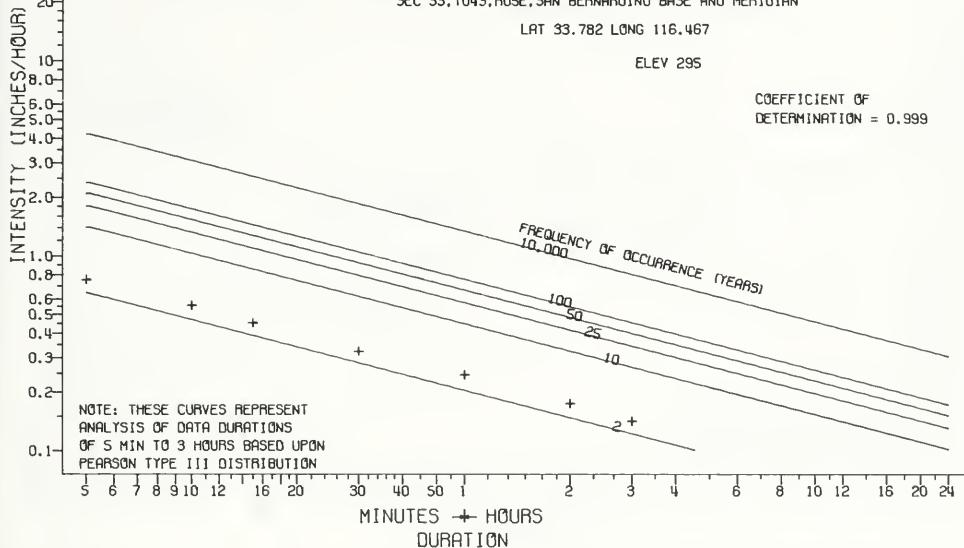


INTENSITY DURATION FREQUENCY CURVES FOR 1969 - 1975
 CATHEDRAL CITY R.O. STATION X19 1594 0
 RIVERSIDE COUNTY

SEC 33, T04S, R05E, SAN BERNARDINO BASE AND MERIDIAN
 LAT 33.782 LONG 116.467

ELEV 295

COEFFICIENT OF
 DETERMINATION = 0.999

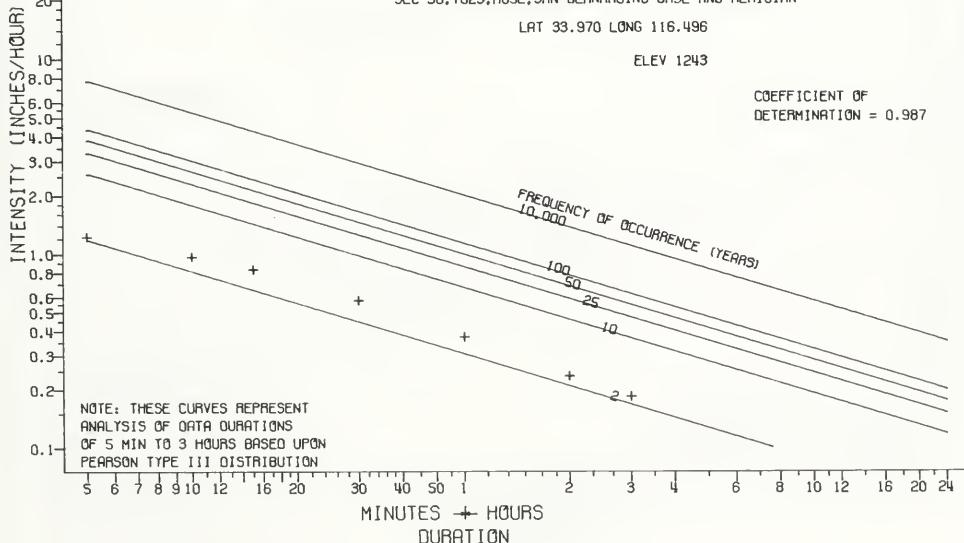


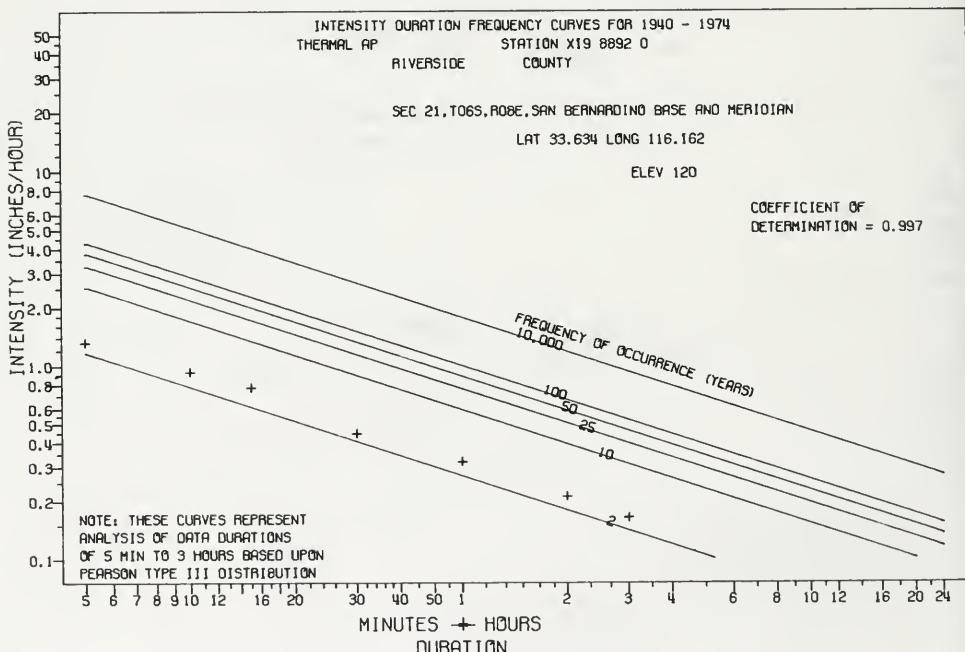
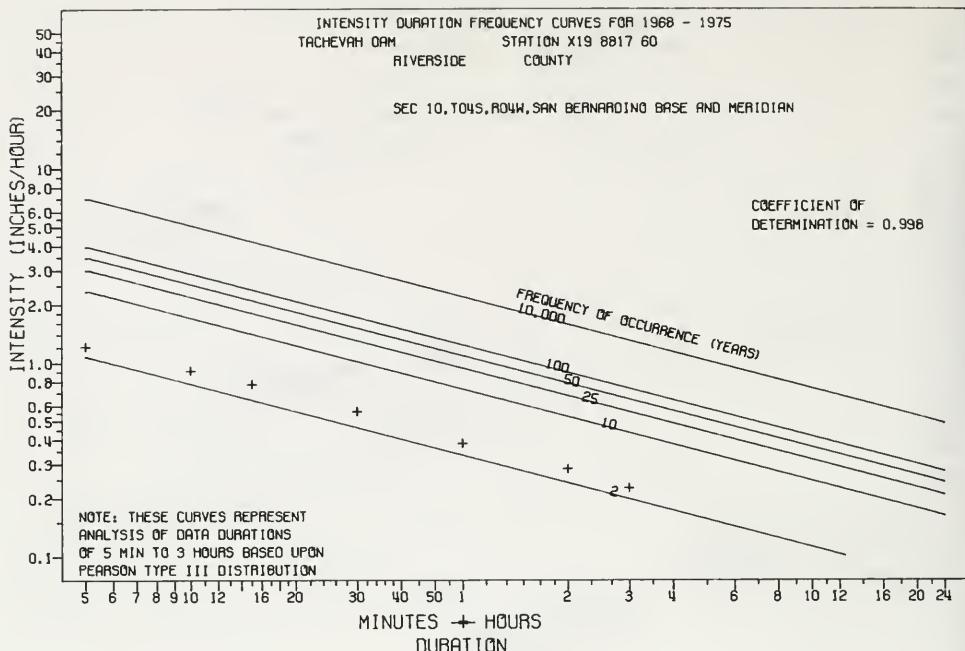
INTENSITY DURATION FREQUENCY CURVES FOR 1958 - 1975
 DESERT HOT SPRINGS STATION X19 2405 0
 RIVERSIDE COUNTY

SEC 30, T02S, R05E, SAN BERNARDINO BASE AND MERIDIAN
 LAT 33.970 LONG 116.496

ELEV 1243

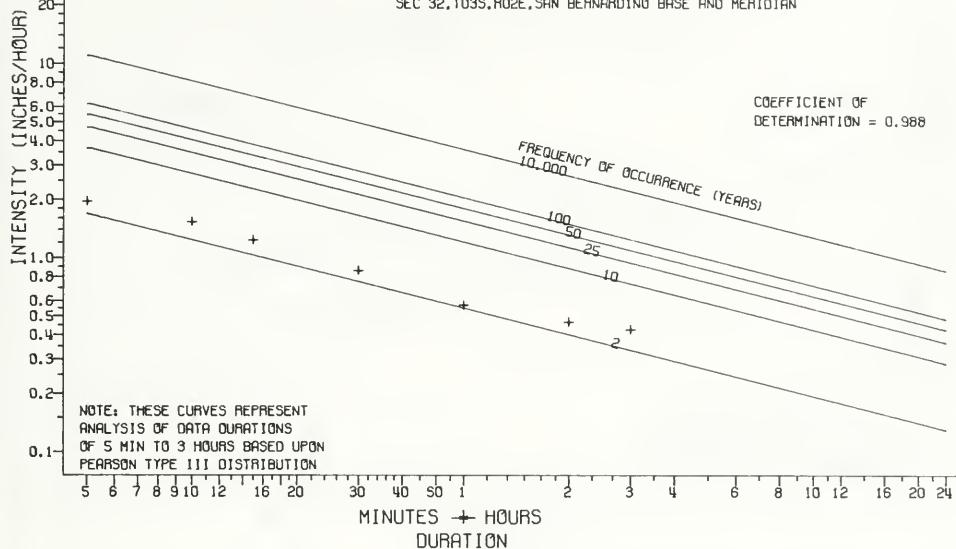
COEFFICIENT OF DETERMINATION = 0.987





INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1975
 TWIN PINES STATION X19 9105 20
 RIVERSIDE COUNTY

SEC 32, T03S, R02E, SAN BERNARDINO BASE AND MERIDIAN

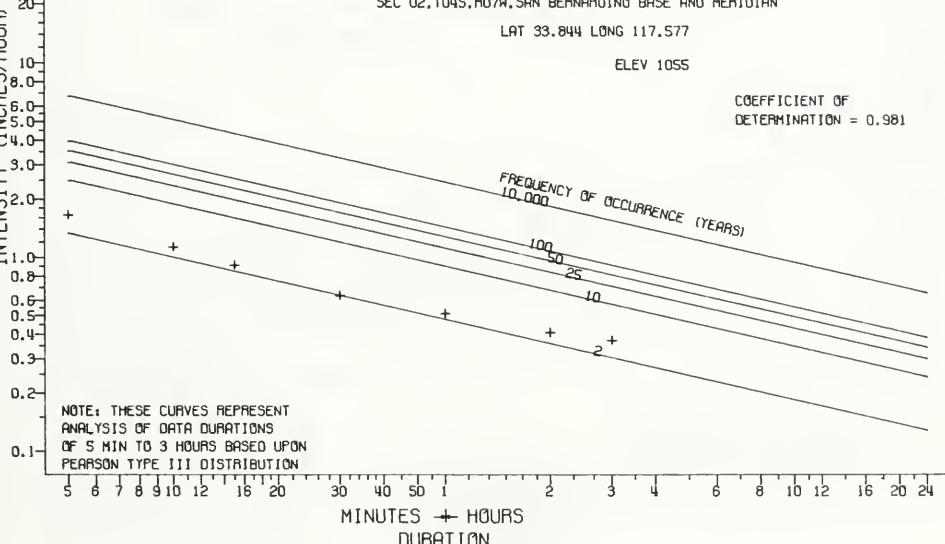


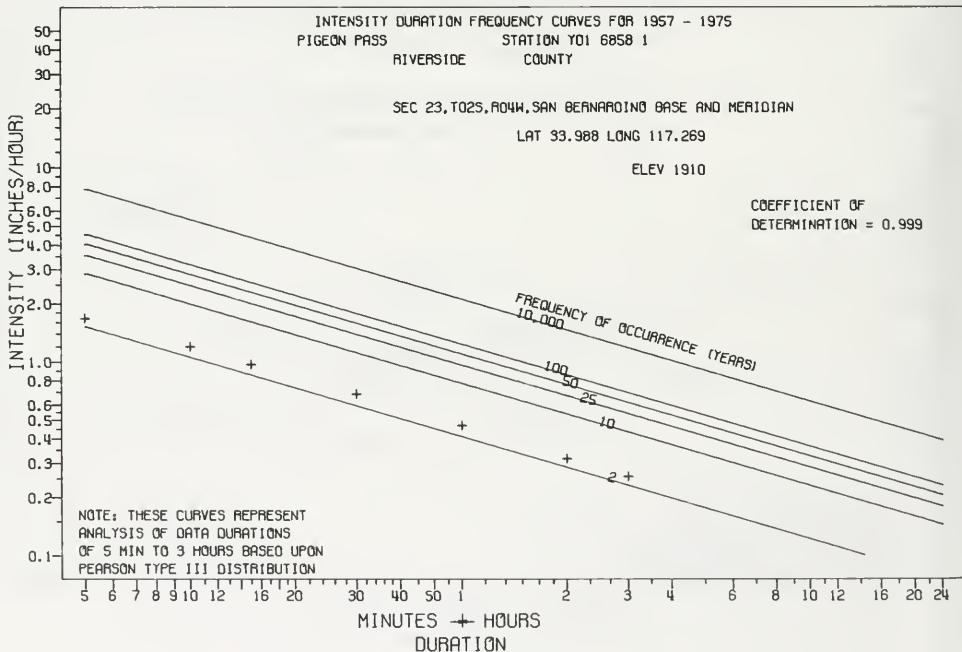
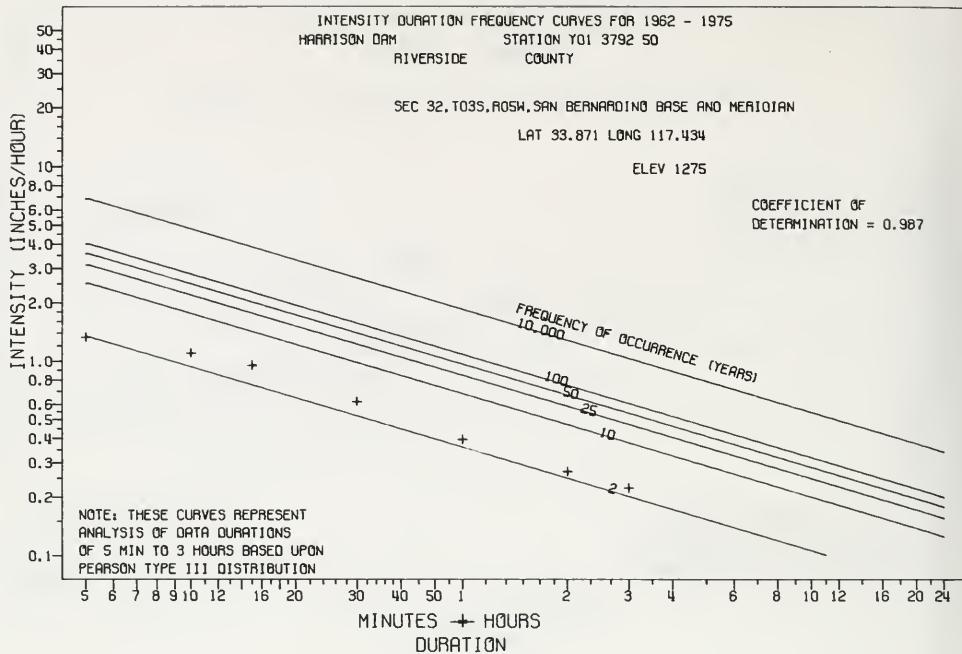
INTENSITY DURATION FREQUENCY CURVES FOR 1968 - 1975
 CHASE AND TAYLOR STATION Y01 2034 21
 RIVERSIDE COUNTY

SEC 02, T04S, R07W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 33.844 LONG 117.577

ELEV 1055

COEFFICIENT OF DETERMINATION = 0.981





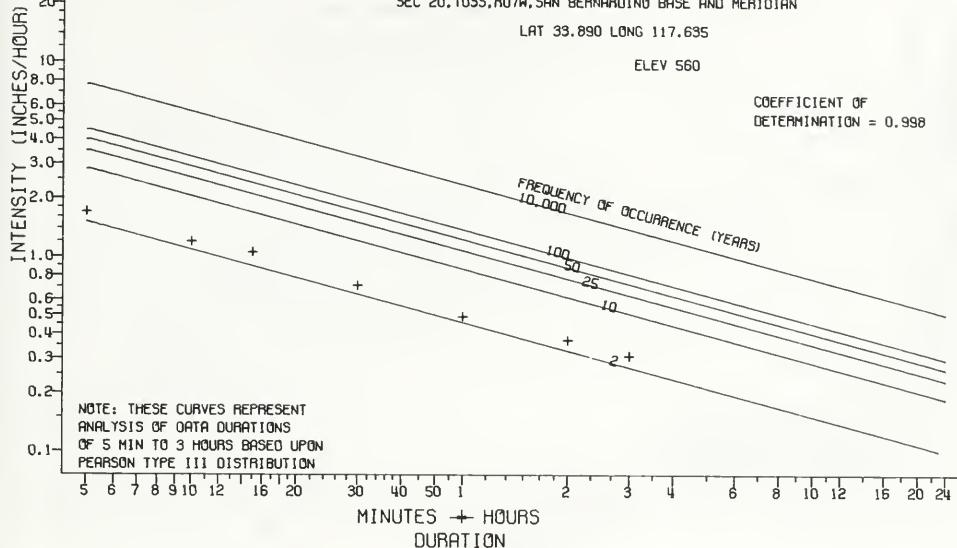
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 PAROO DAM STATION Y01 7123 0
 RIVERSIDE COUNTY

SEC 20, T03S, R07W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.890 LONG 117.635

ELEV 560

COEFFICIENT OF
 DETERMINATION = 0.998



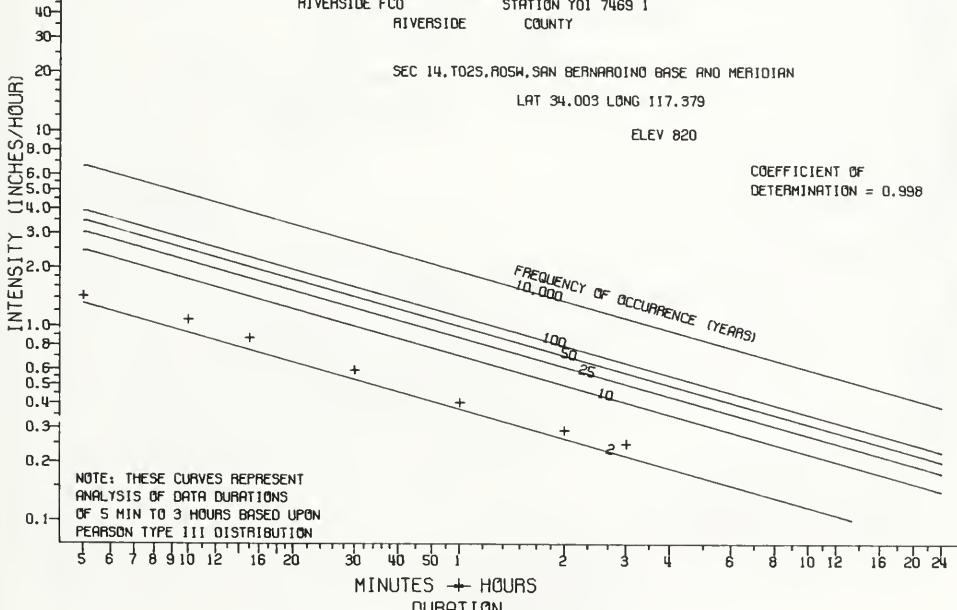
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1975
 RIVERSIDE FCO STATION Y01 7469 1
 RIVERSIDE COUNTY

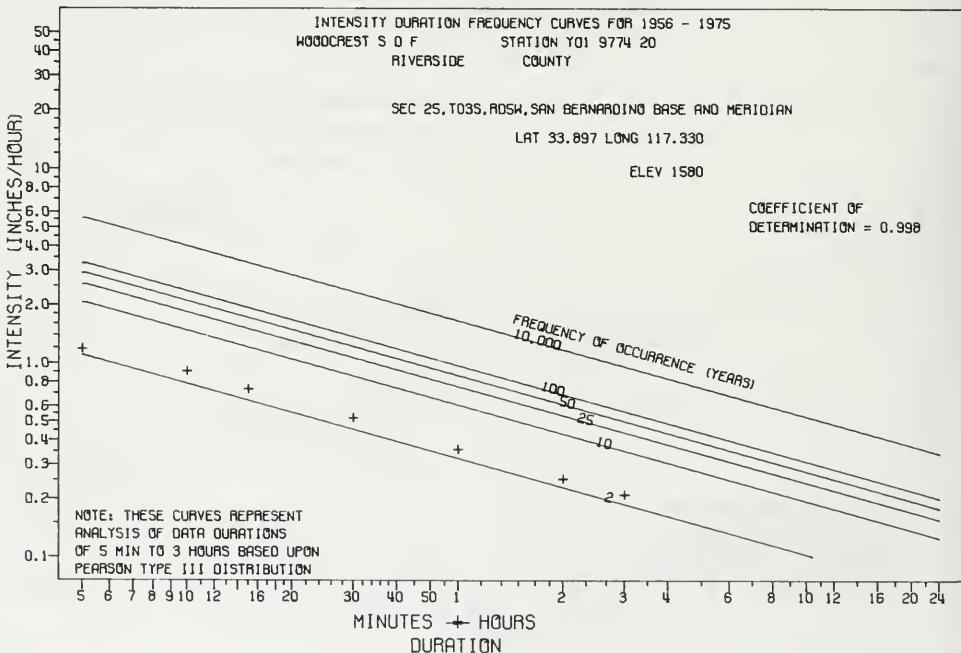
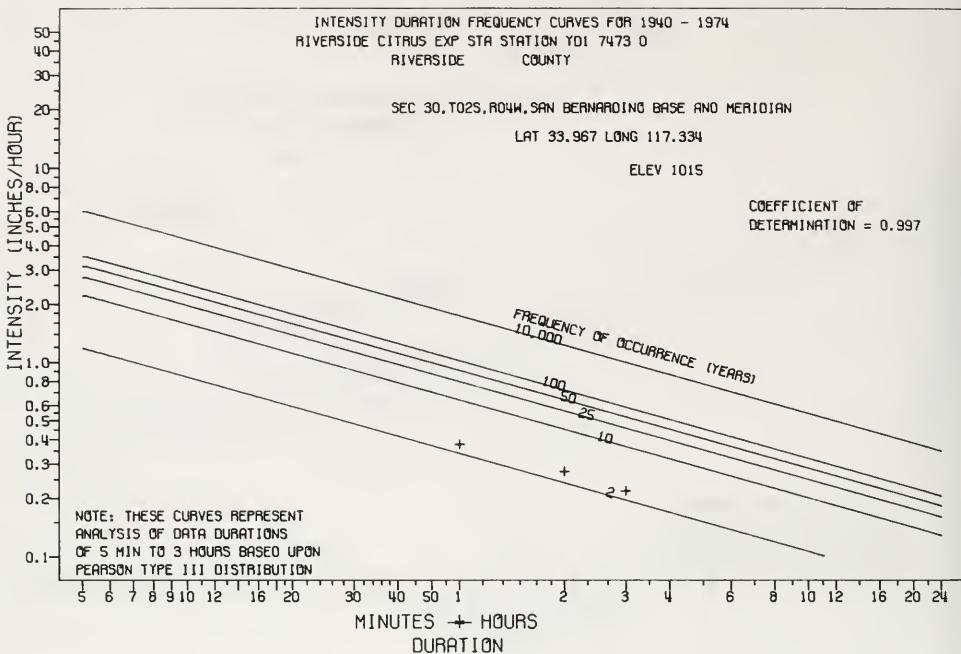
SEC 14, T02S, R08W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.003 LONG 117.379

ELEV 820

COEFFICIENT OF
 DETERMINATION = 0.998





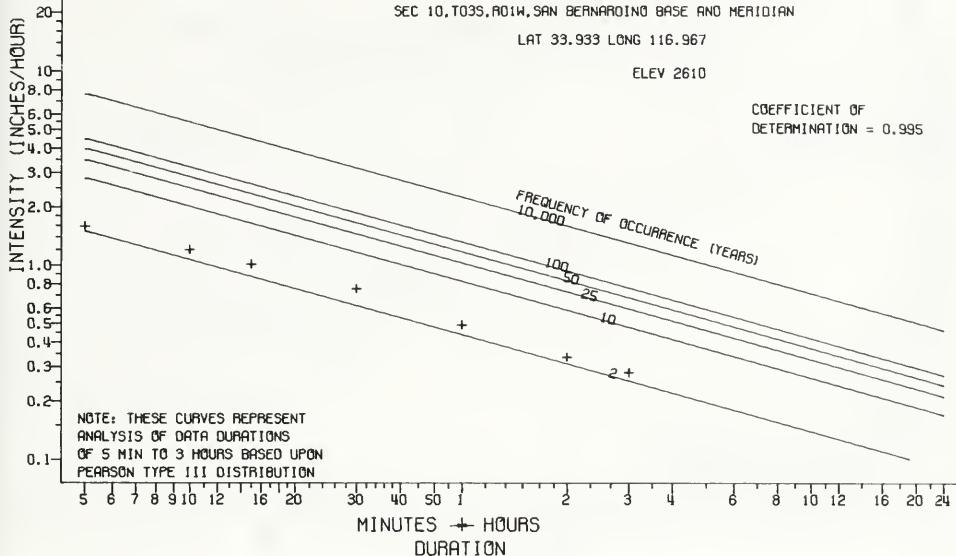
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 BERUMONT STATION Y02 606 0
 RIVERSIDE COUNTY

SEC 10, T03S, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.933 LONG 116.967

ELEV 2610

COEFFICIENT OF
 DETERMINATION = 0.995

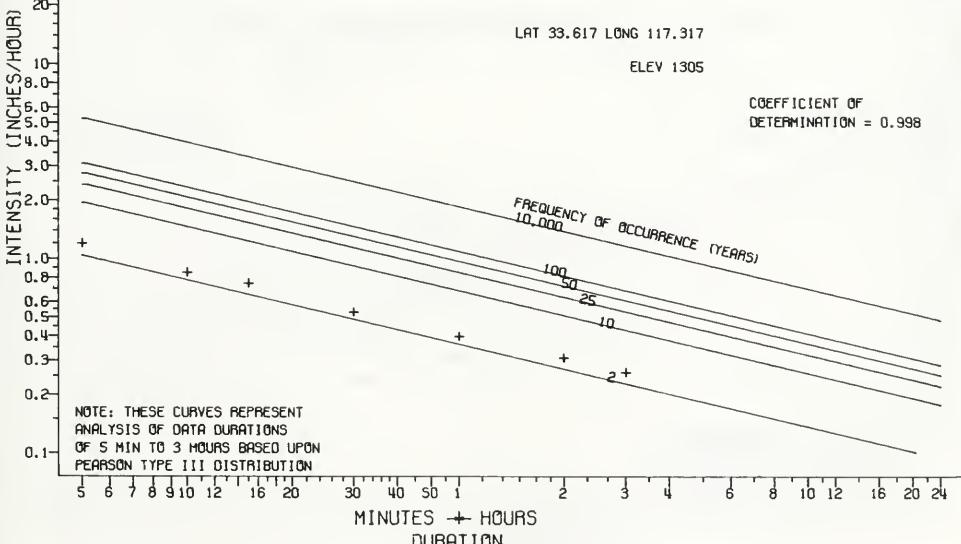


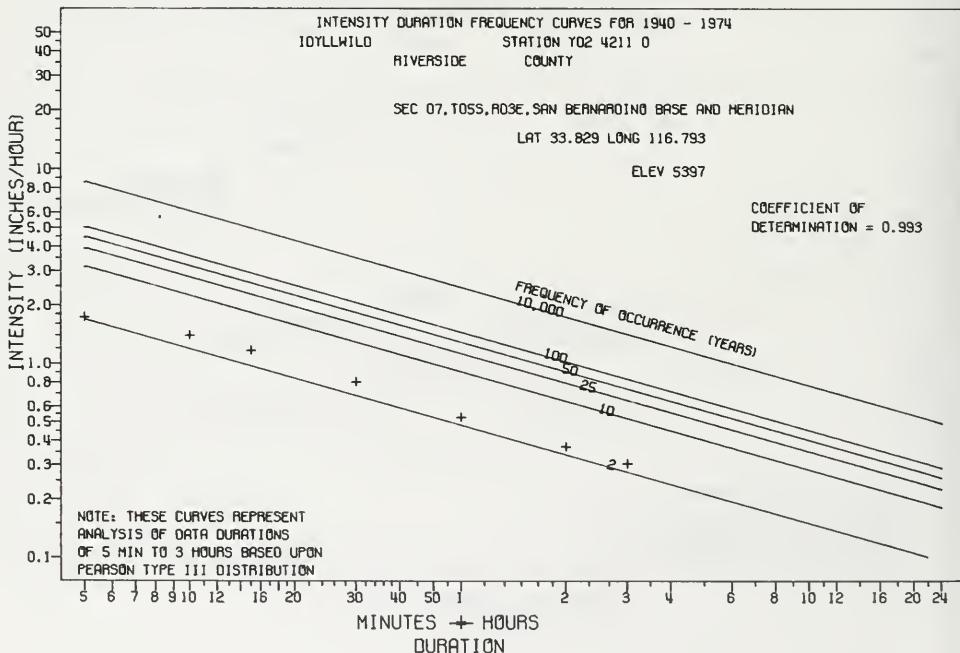
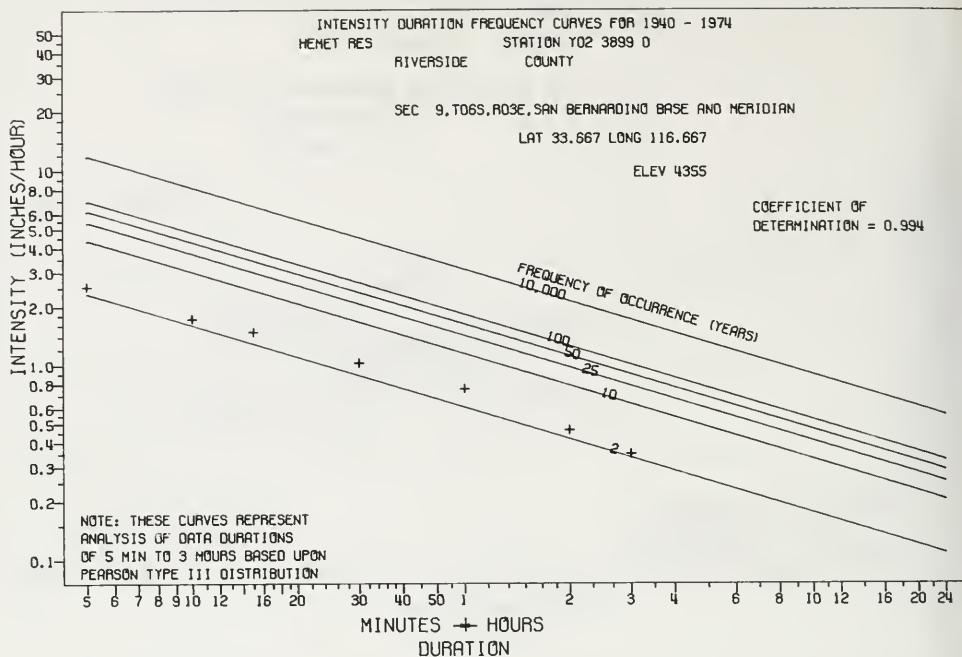
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 ELSINORE 4SSE STATION Y02 2812 0
 RIVERSIDE COUNTY

LAT 33.617 LONG 117.317

ELEV 1305

COEFFICIENT OF
 DETERMINATION = 0.998





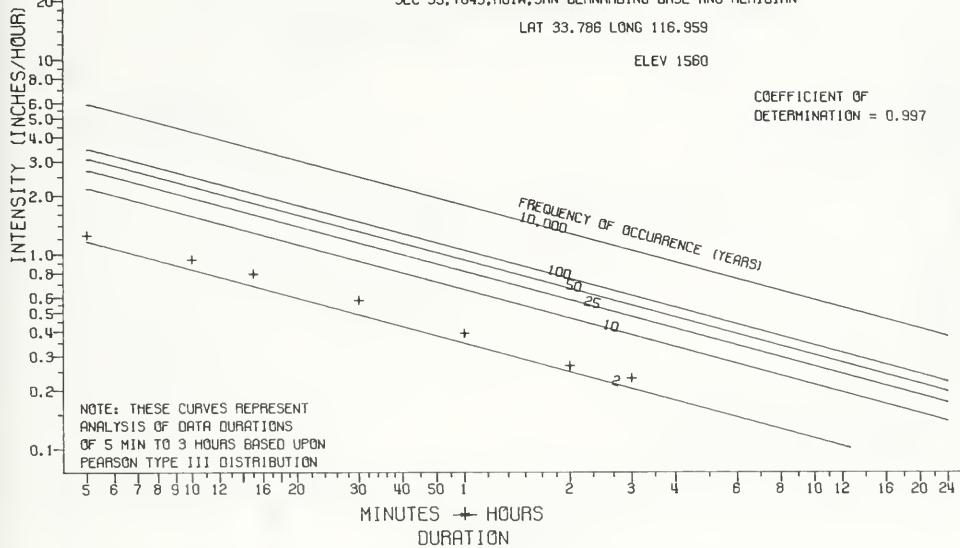
INTENSITY DURATION FREQUENCY CURVES FOR 1939 - 1973
 SAN JACINTO RS STATION Y02 7813 0
 RIVERSIDE COUNTY

SEC 35, T04S, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.706 LONG 116.959

ELEV 1560

COEFFICIENT OF
 DETERMINATION = 0.997



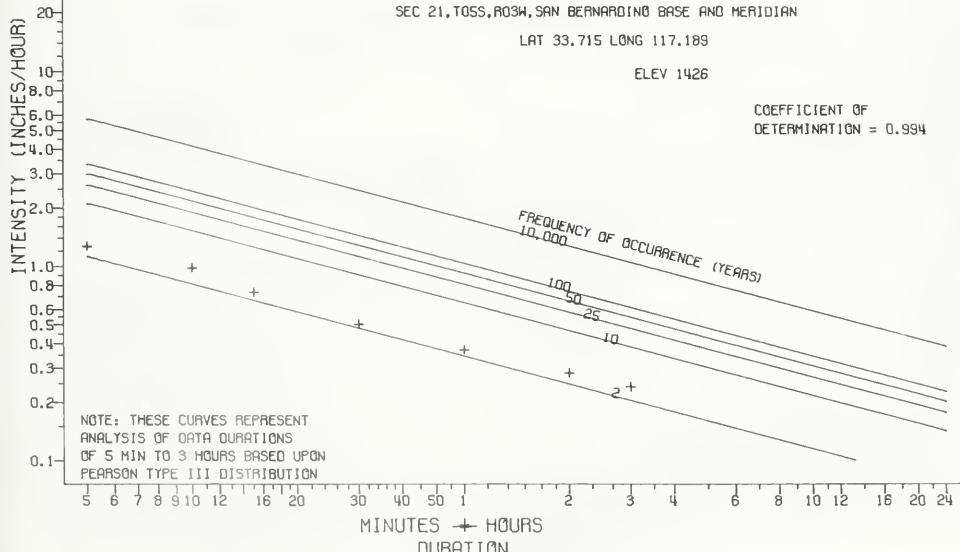
INTENSITY DURATION FREQUENCY CURVES FOR 1971 - 1975
 SUN CITY S O F STATION Y02 8650 75
 RIVERSIDE COUNTY

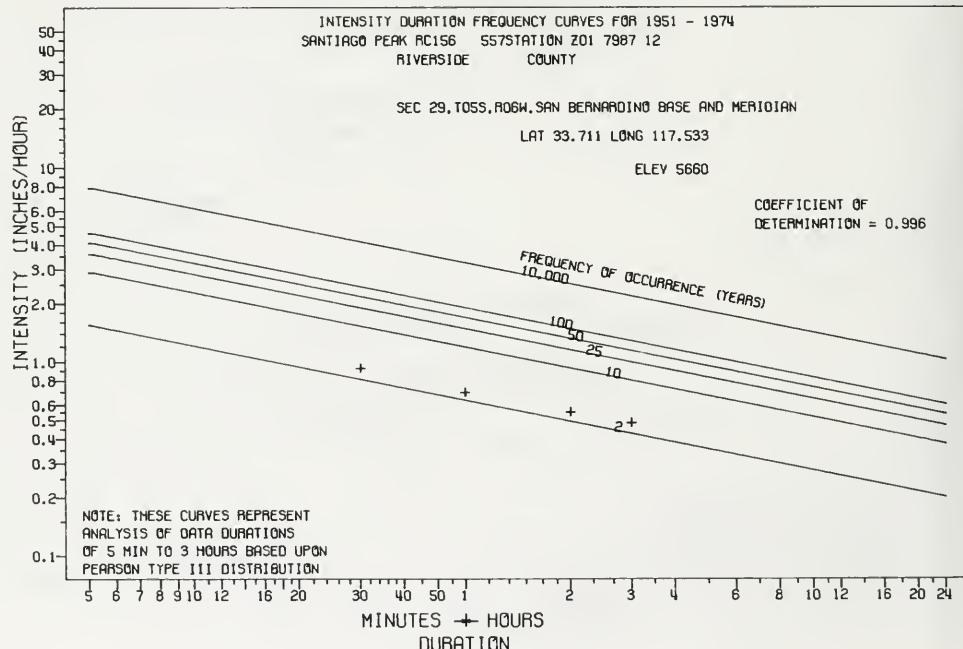
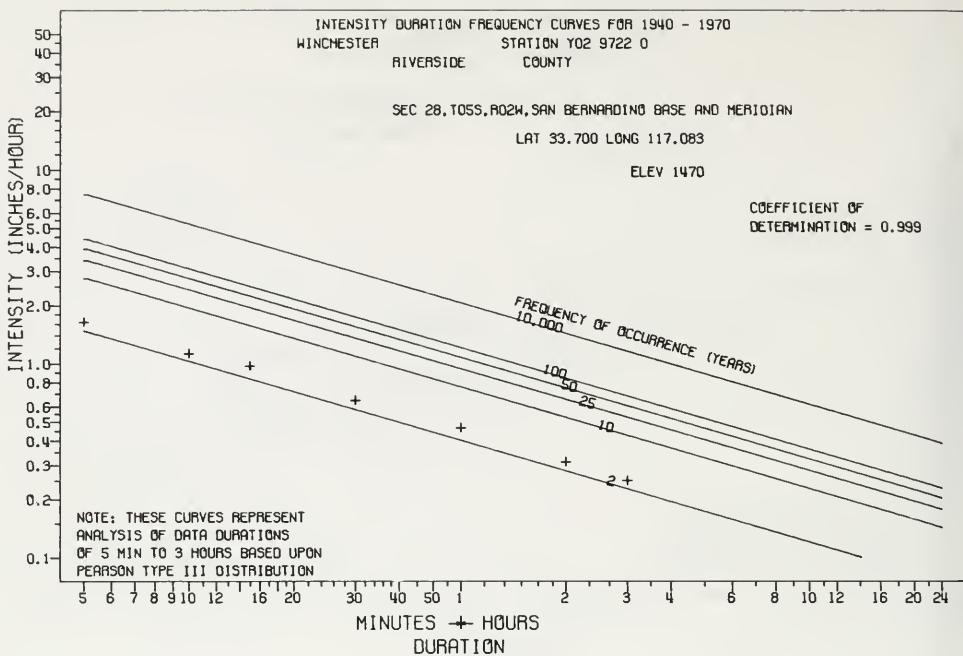
SEC 21, T05S, R03W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.715 LONG 117.189

ELEV 1426

COEFFICIENT OF
 DETERMINATION = 0.994





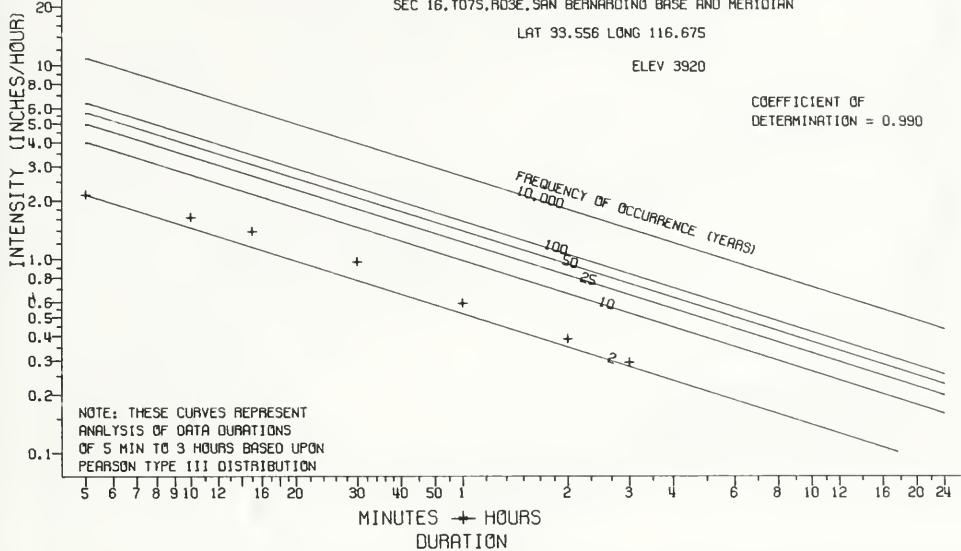
INTENSITY DURATION FREQUENCY CURVES FOR 1959 - 1975
 ANZA S D F STATION Z02 235 0
 RIVERSIDE COUNTY

SEC 16, T07S, R03E, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.556 LONG 116.675

ELEV 3920

COEFFICIENT OF
 DETERMINATION = 0.990



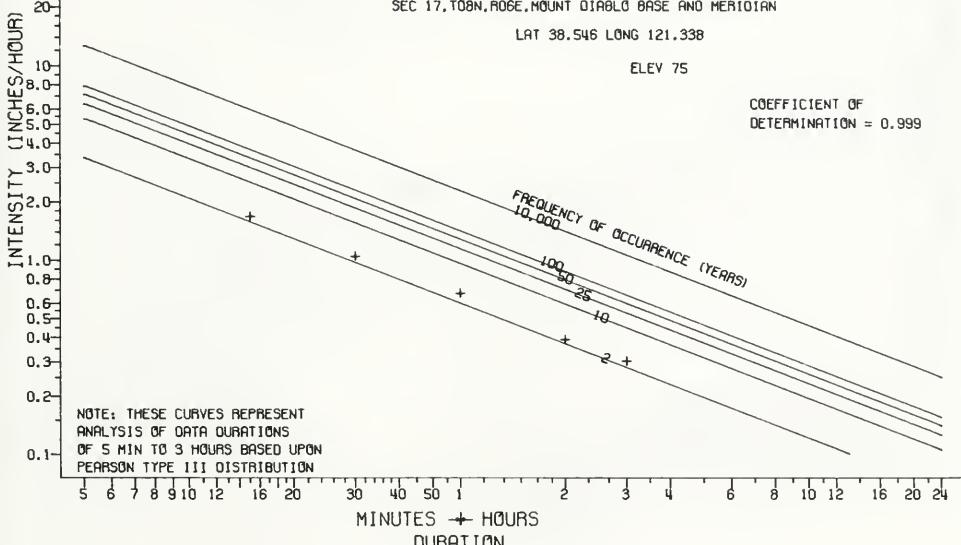
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1975
 BRANCH CENTER STATION A00 1040 0
 SACRAMENTO COUNTY

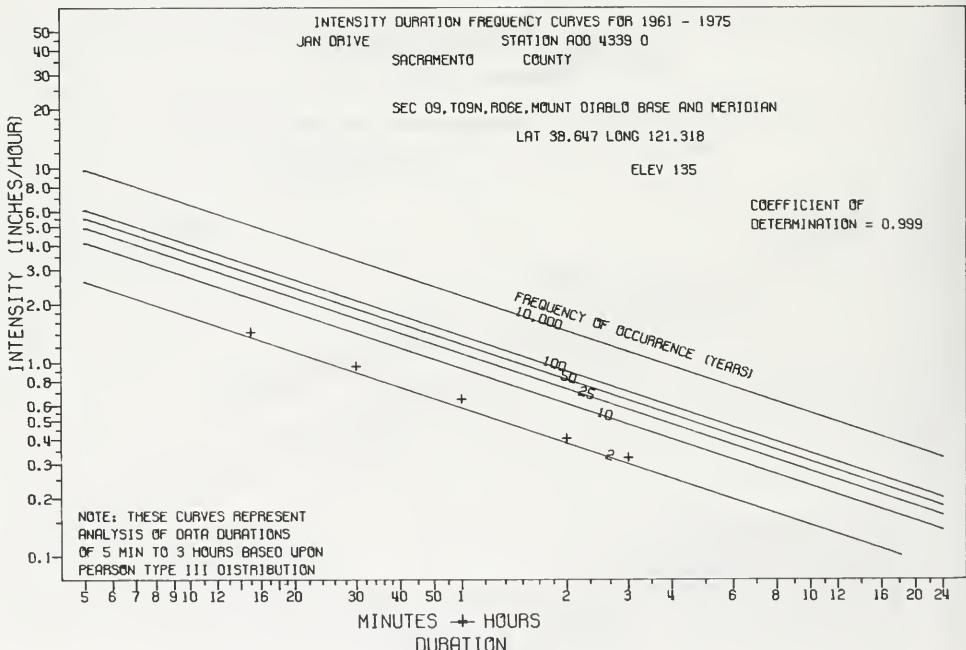
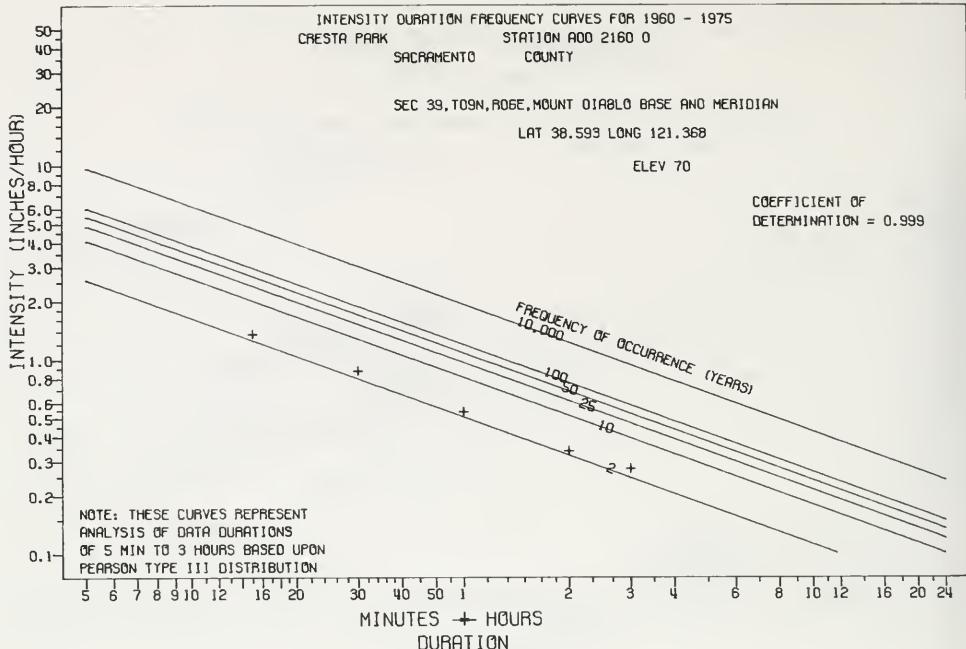
SEC 17, T08N, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.546 LONG 121.338

ELEV 75

COEFFICIENT OF
 DETERMINATION = 0.999





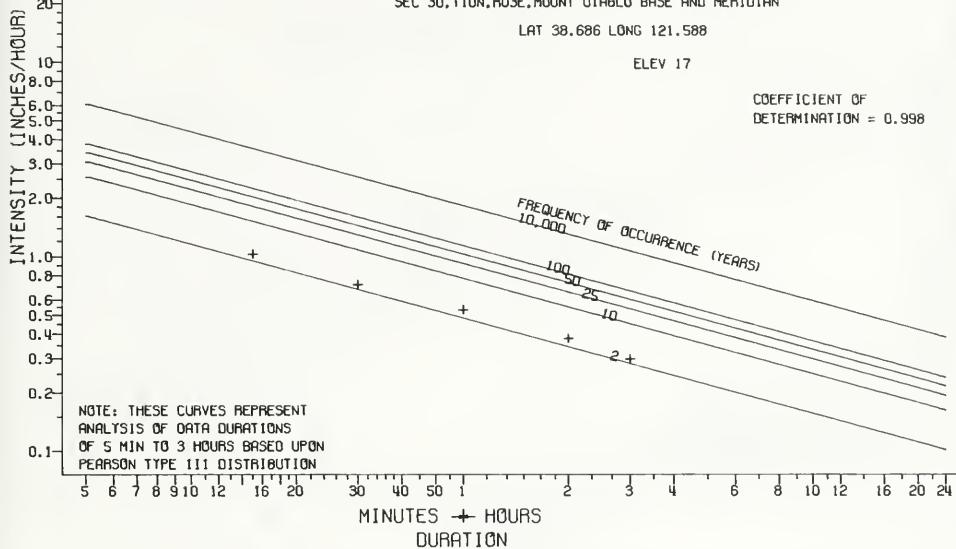
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1975
 METROPOLITAN AIRPORT STATION AOO 5569 90
 SACRAMENTO COUNTY

SEC 30, T10N, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.686 LONG 121.588

ELEV 17

COEFFICIENT OF
 DETERMINATION = 0.998



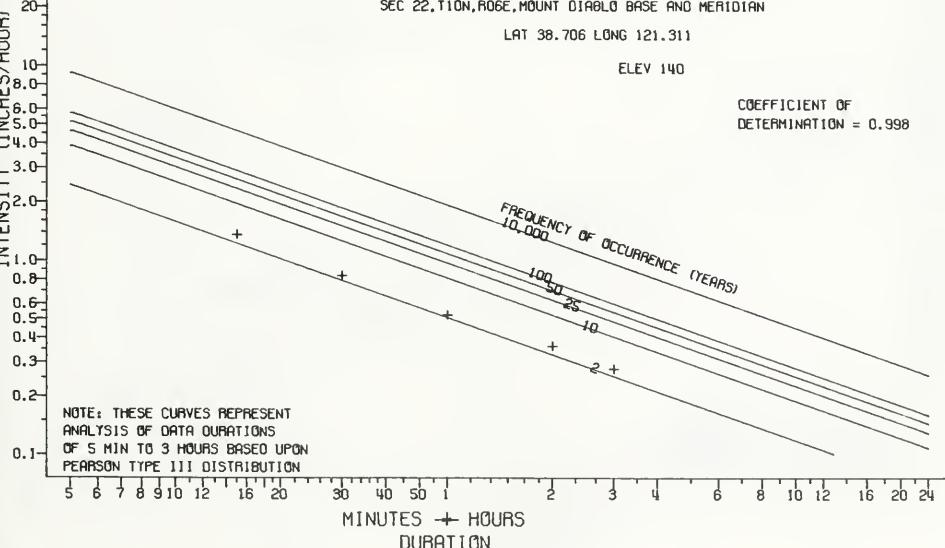
INTENSITY DURATION FREQUENCY CURVES FOR 1969 - 1975
 NAVION STATION AOO 6106 50
 SACRAMENTO COUNTY

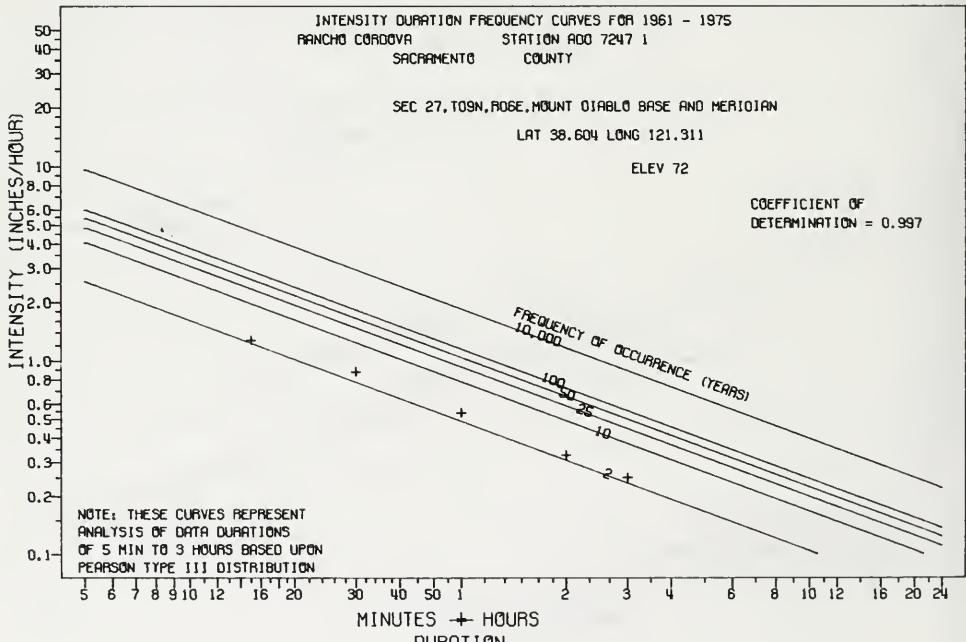
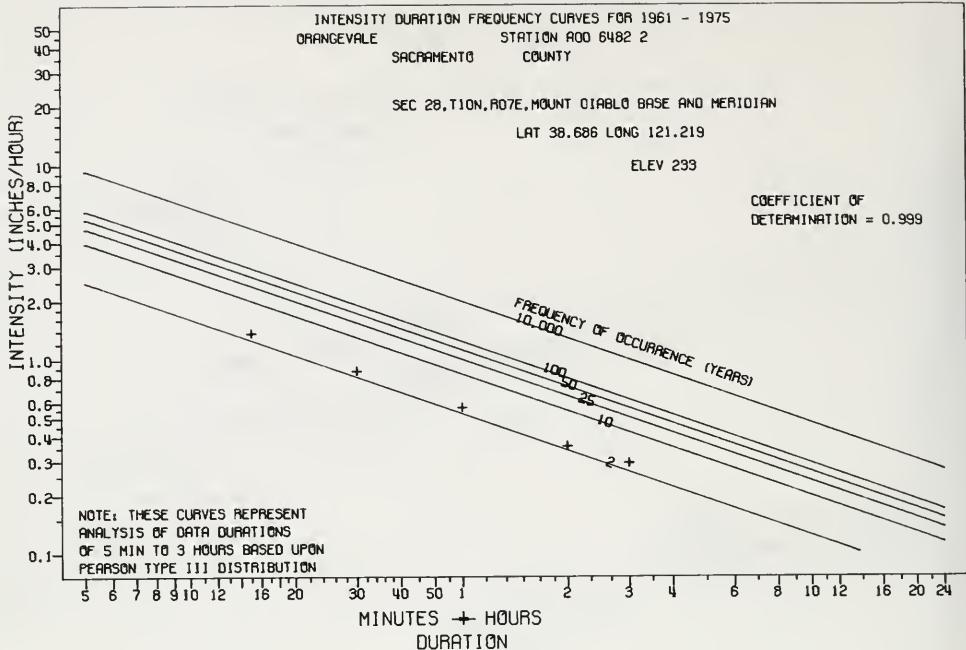
SEC 22, T10N, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.706 LONG 121.311

ELEV 140

COEFFICIENT OF DETERMINATION = 0.998





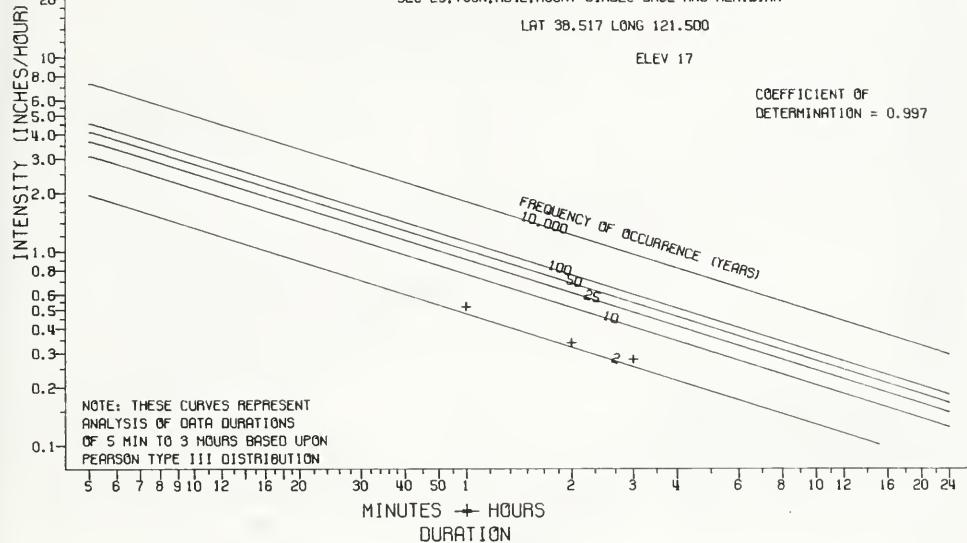
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 SACRAMENTO AP STATION AOO 7630 0
 SACRAMENTO COUNTY

SEC 25, T08N, R04E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.517 LONG 121.500

ELEV 17

COEFFICIENT OF
 DETERMINATION = 0.997



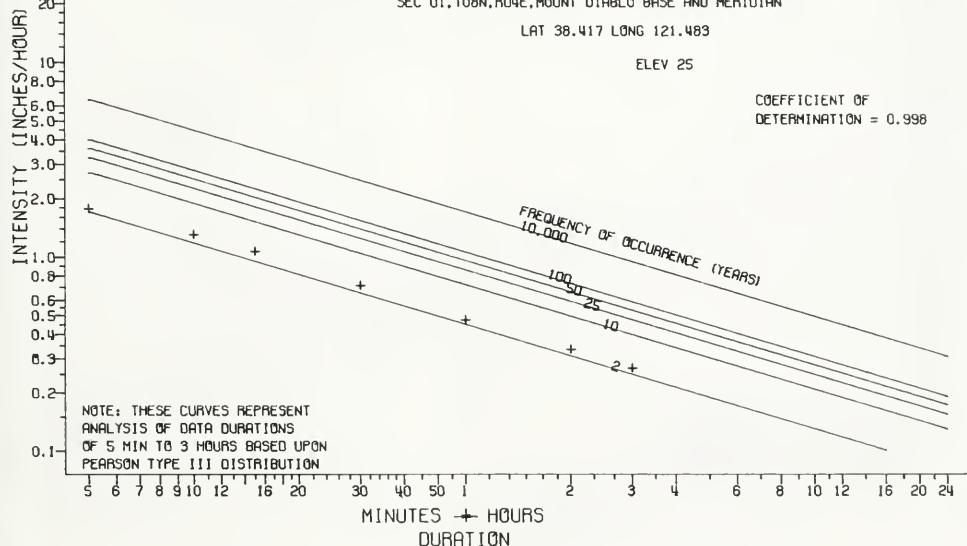
INTENSITY DURATION FREQUENCY CURVES FOR 1903 - 1975
 SACRAMENTO CITY NWS STATION AOO 7633 0
 SACRAMENTO COUNTY

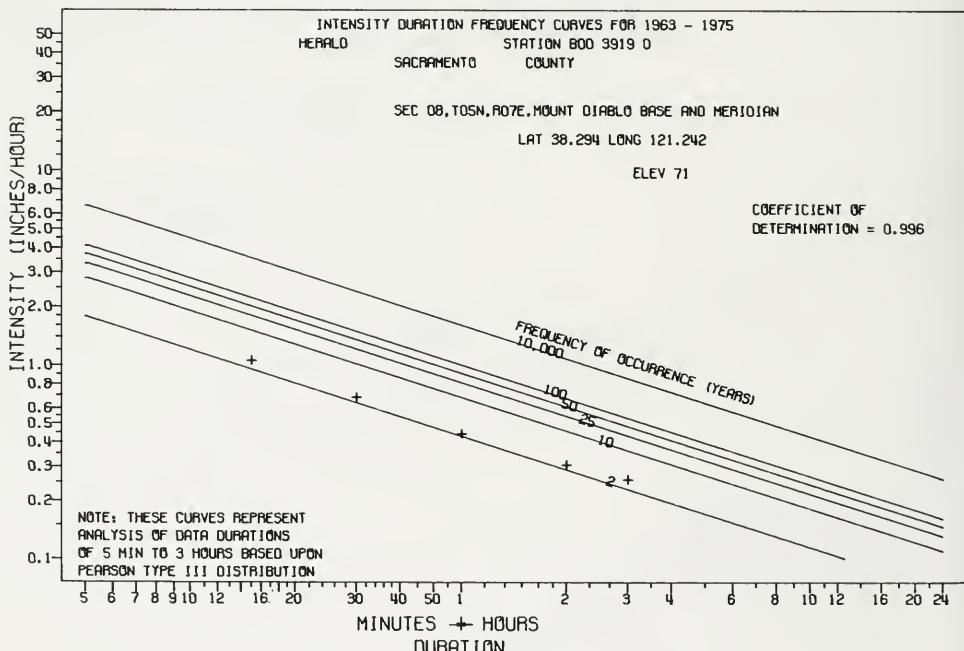
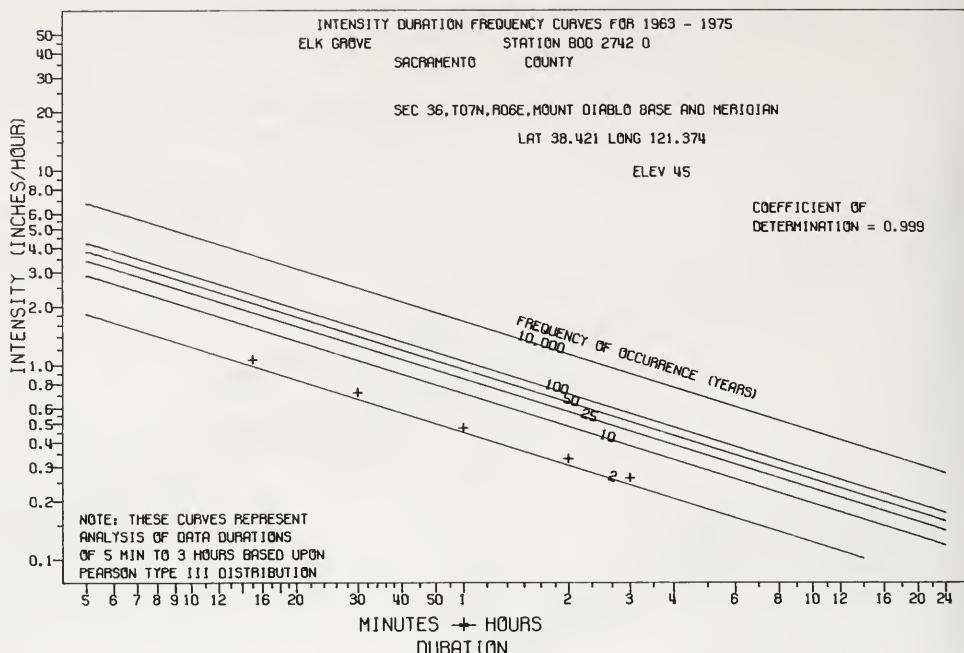
SEC 01, T08N, R04E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.417 LONG 121.483

ELEV 25

COEFFICIENT OF
 DETERMINATION = 0.998





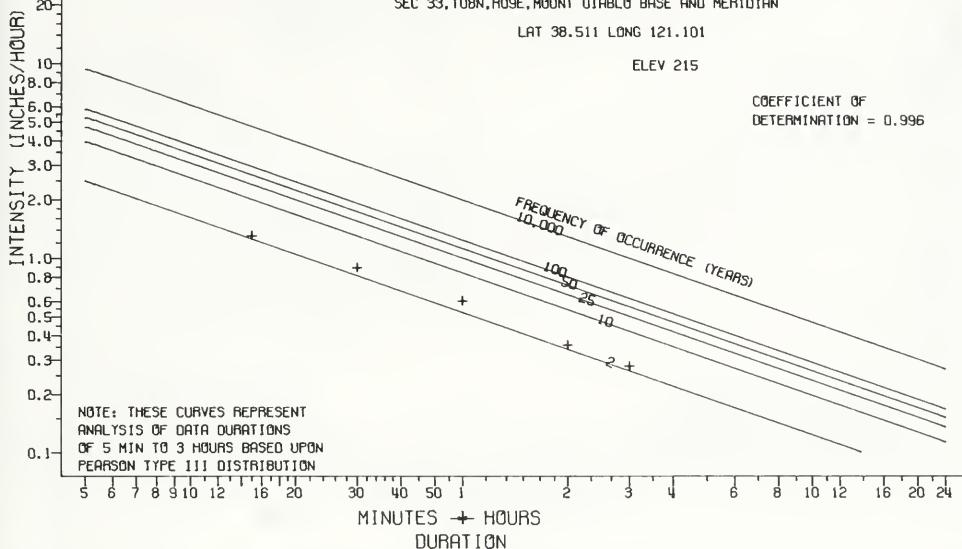
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1975
 RANCHO MURIETTA STATION 800 7248 35
 SACRAMENTO COUNTY

SEC 33, T08N, R04E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.511 LONG 121.101

ELEV 215

COEFFICIENT OF
 DETERMINATION = 0.996



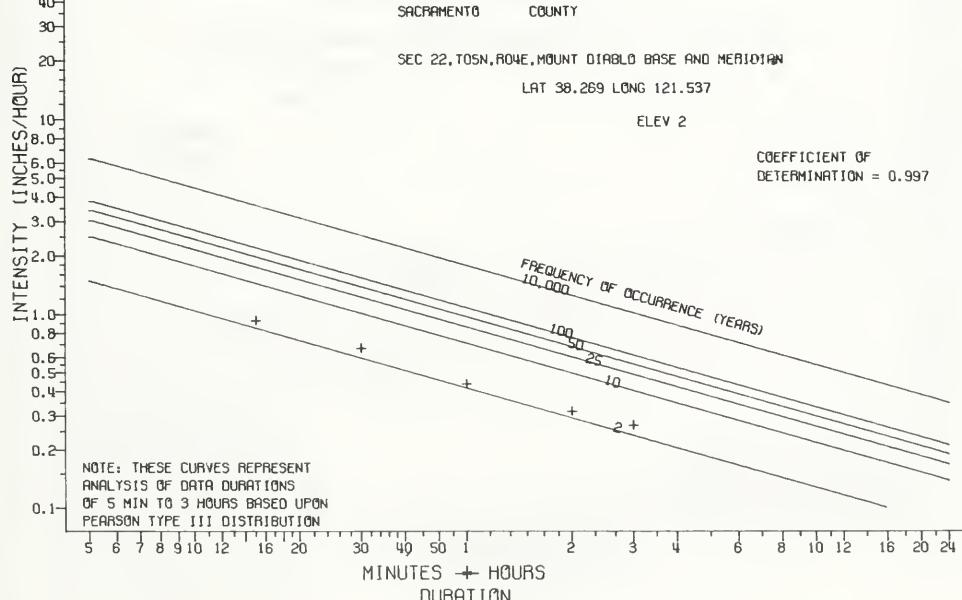
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1975
 GEORGIANA SLough BRIDGE STATION 890 9429 0
 SACRAMENTO COUNTY

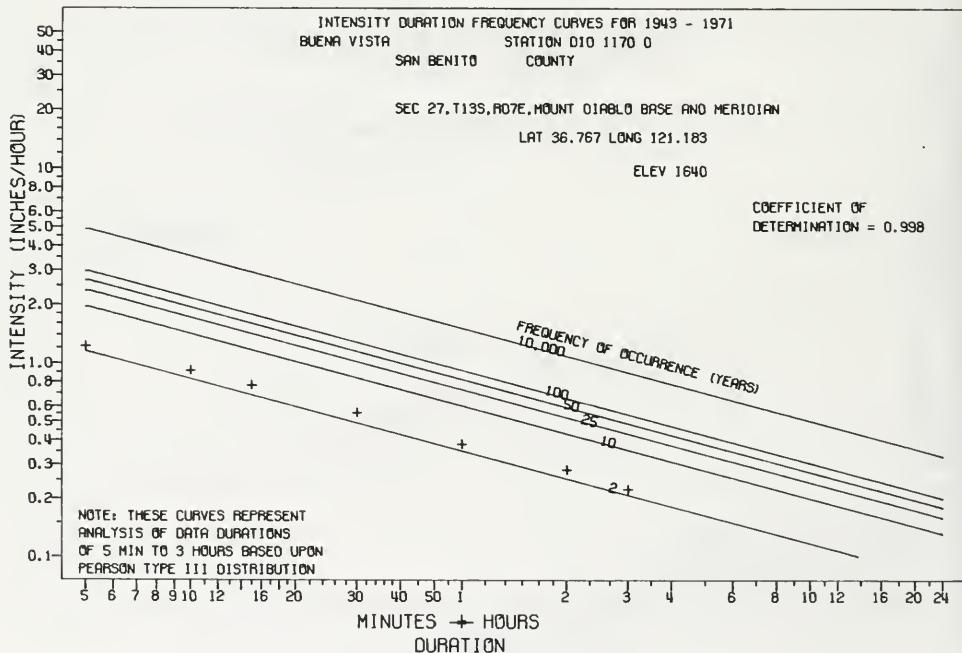
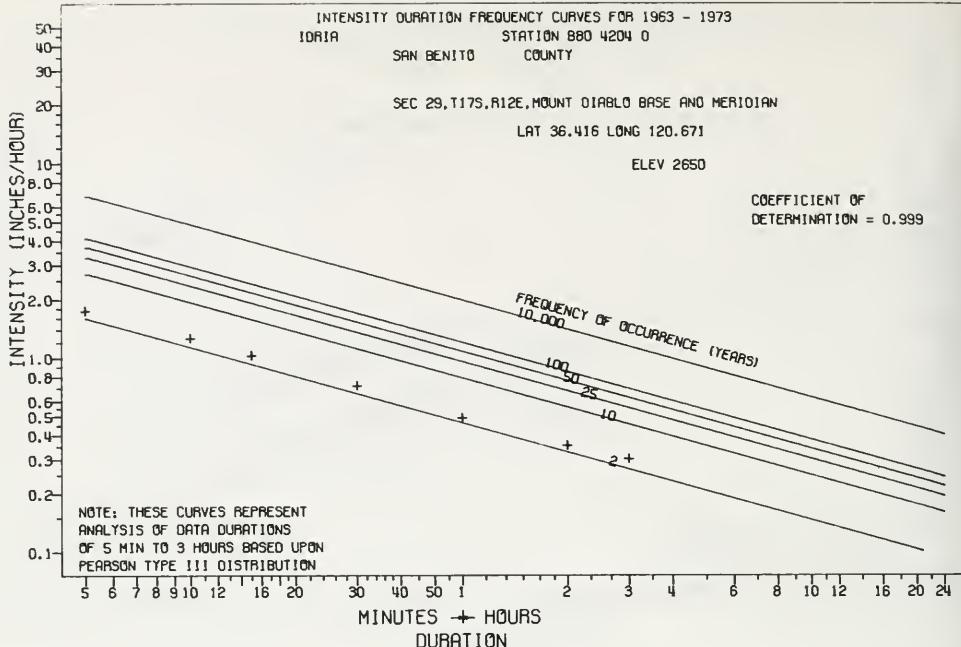
SEC 22, T08N, R04E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.269 LONG 121.537

ELEV 2

COEFFICIENT OF
 DETERMINATION = 0.997





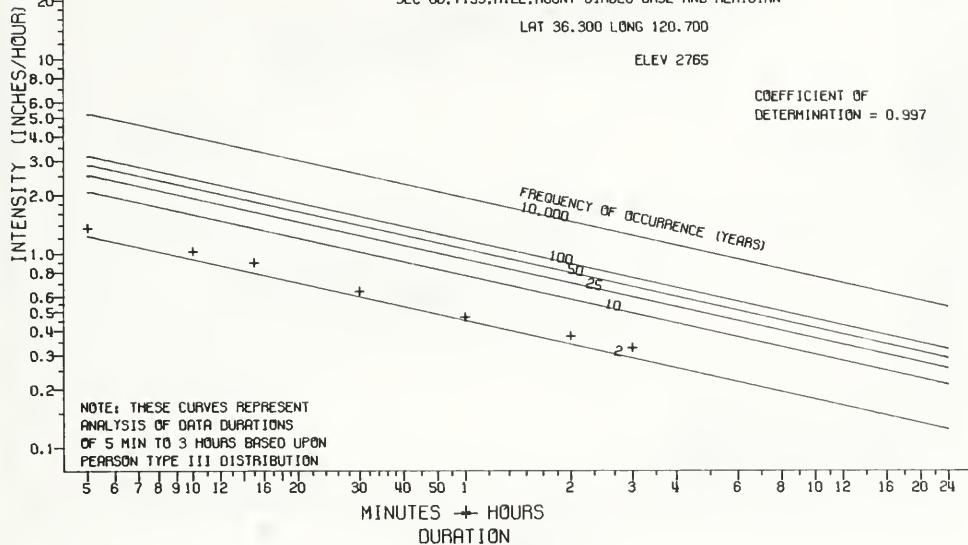
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 HERNANDEZ 7SE STATION 010 3928 0
 SAN BENITO COUNTY

SEC 06, T19S, R12E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.300 LONG 120.700

ELEV 2765

COEFFICIENT OF
 DETERMINATION = 0.997



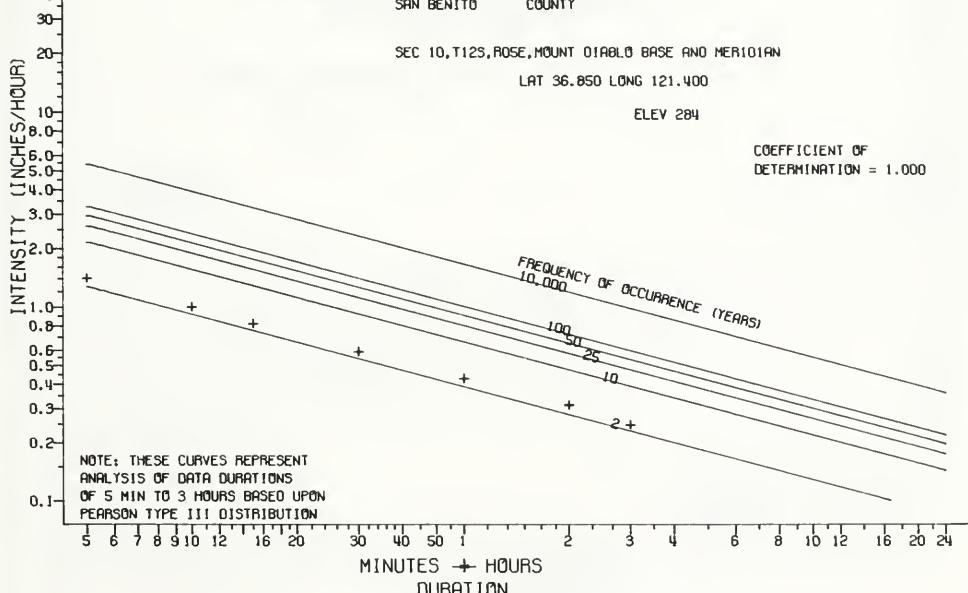
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 HOLLISTER STATION 010 4025 0
 SAN BENITO COUNTY

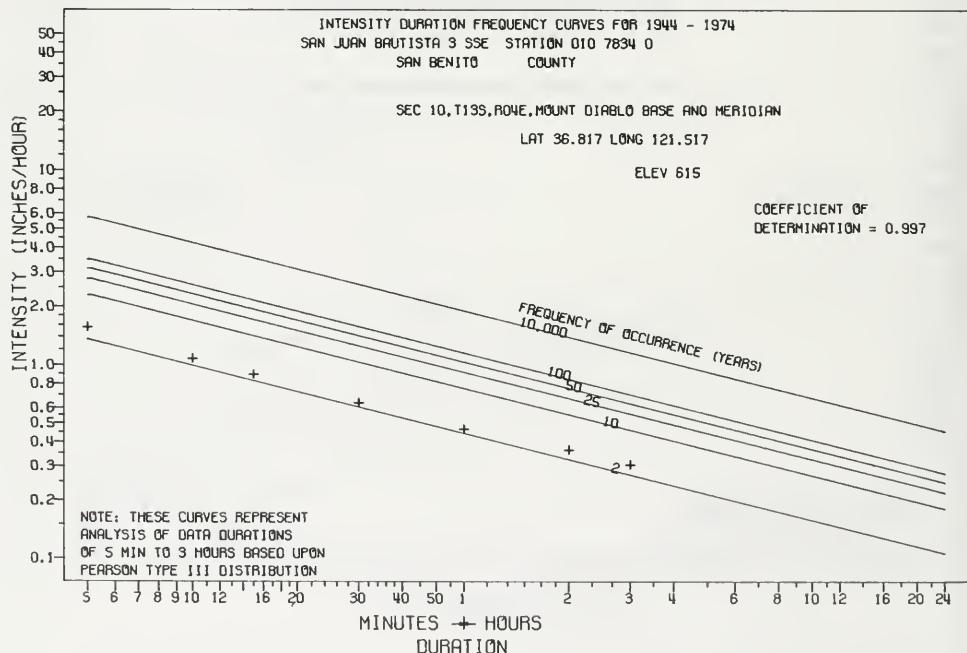
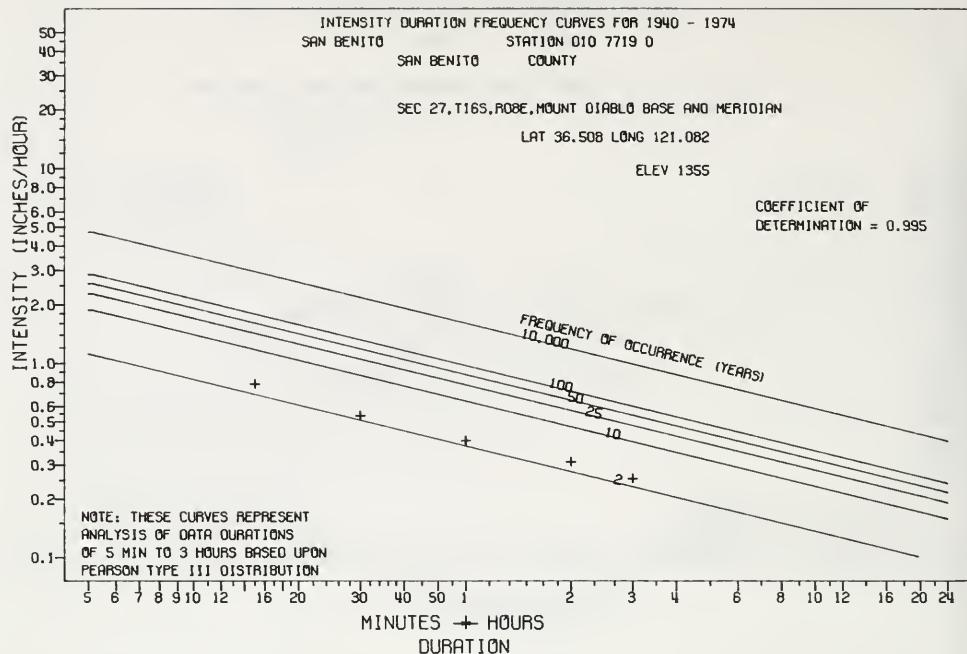
SEC 10, T12S, ROSE, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.850 LONG 121.400

ELEV 284

COEFFICIENT OF DETERMINATION = 1.000





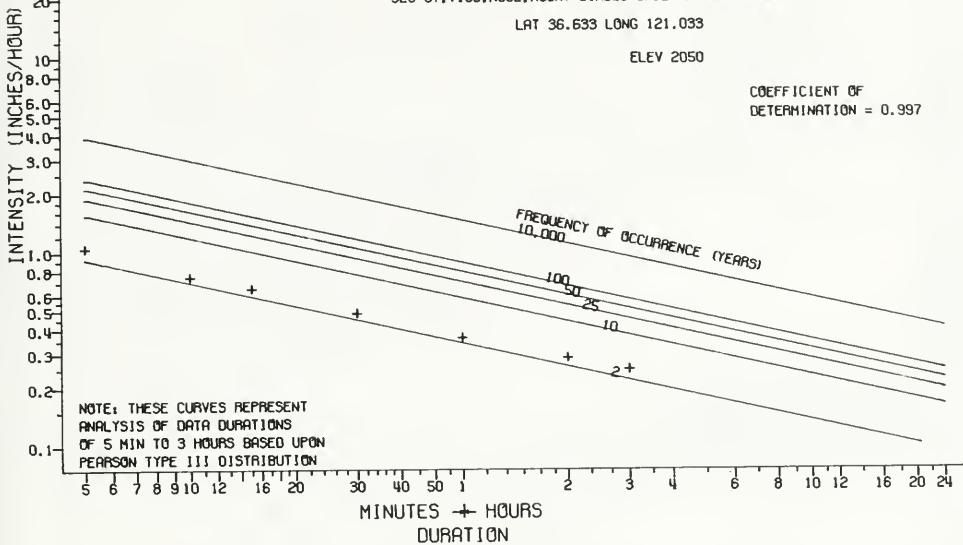
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 UPPER TRES PINOS STATION 010 9189 0
 SAN BENITO COUNTY

SEC 07, T15S, R06E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.533 LONG 121.033

ELEV 2050

COEFFICIENT OF
 DETERMINATION = 0.997



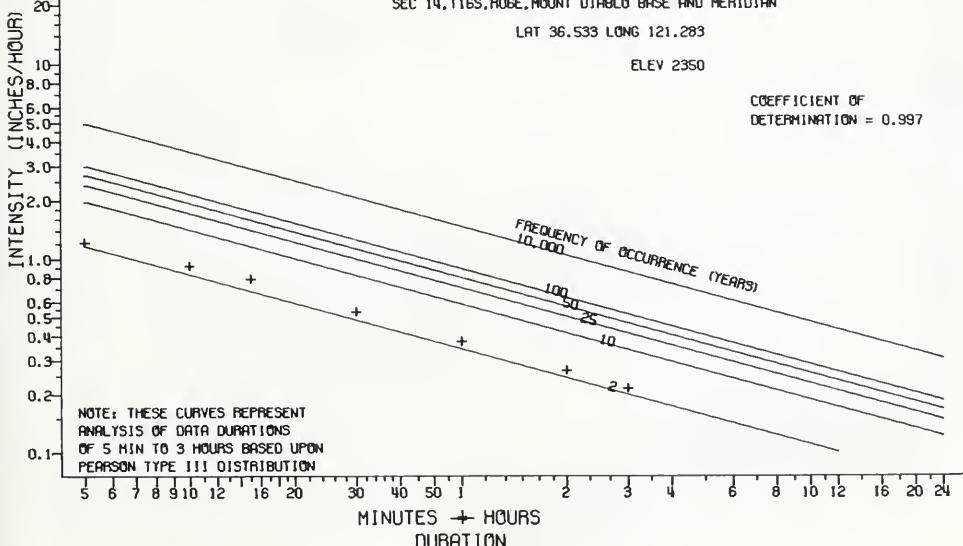
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 GONZALIS 9ENE STATION 020 3502 0
 SAN BENITO COUNTY

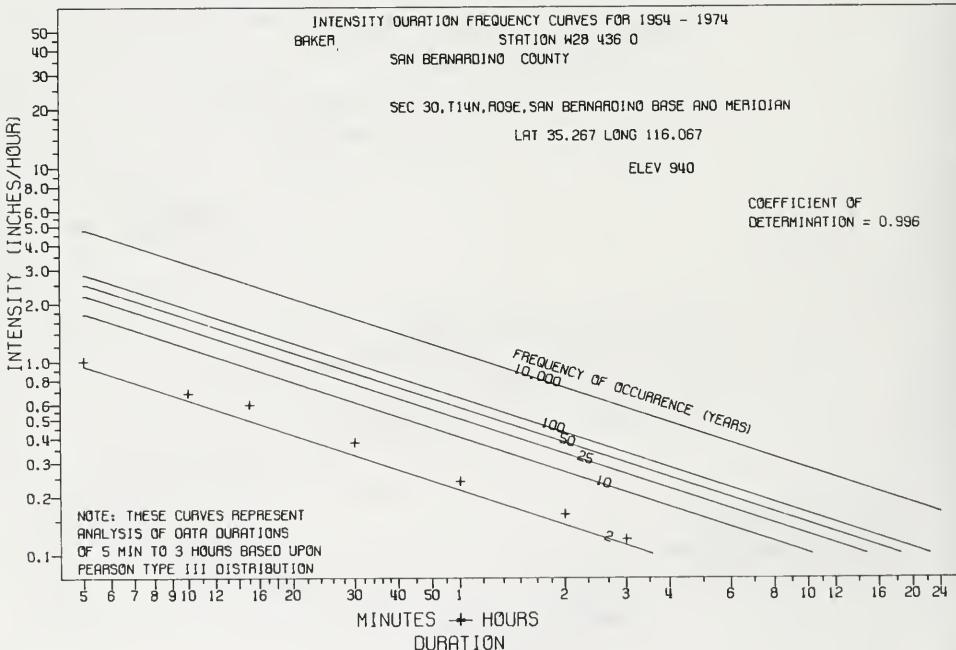
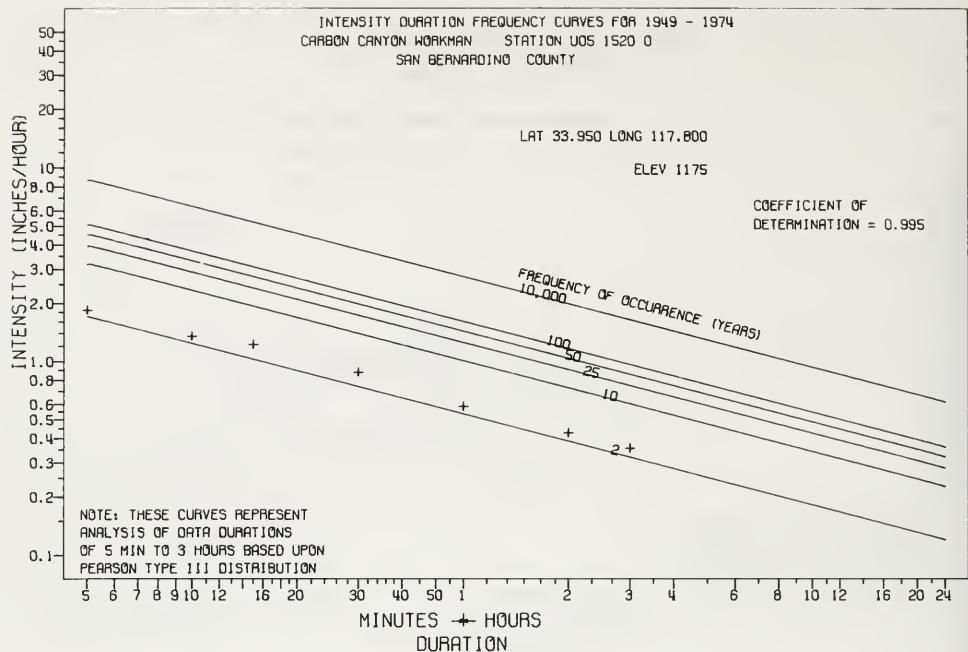
SEC 14, T16S, R06E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.533 LONG 121.283

ELEV 2350

COEFFICIENT OF
 DETERMINATION = 0.997





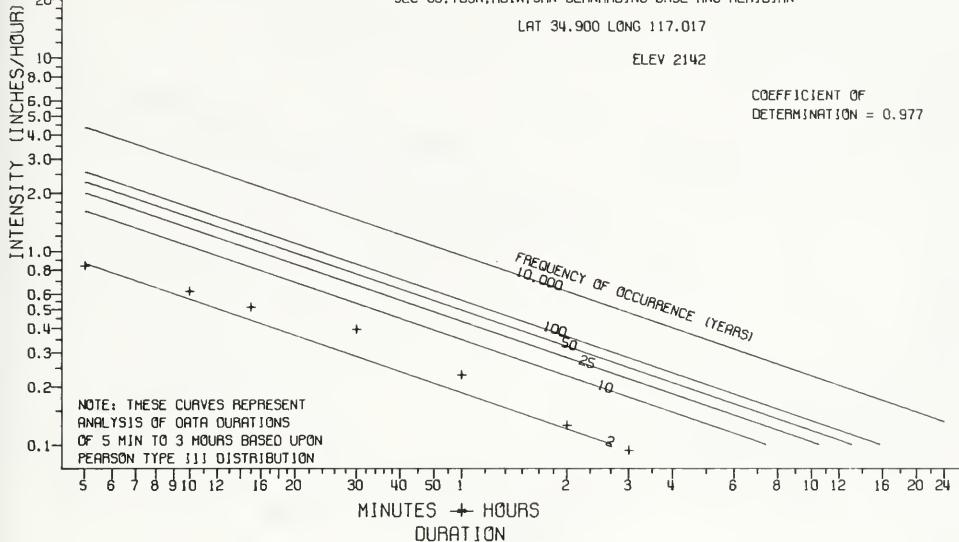
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1973
 BARSTOW STATION W28 519 0
 SAN BERNARDINO COUNTY

SEC 06, T09N, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.900 LONG 117.017

ELEV 2142

COEFFICIENT OF
 DETERMINATION = 0.977



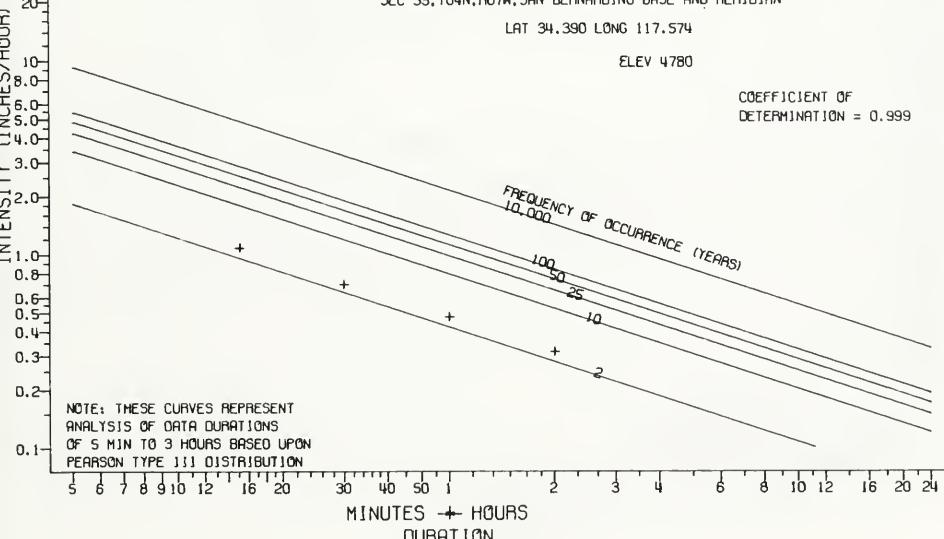
INTENSITY DURATION FREQUENCY CURVES FOR 1953 - 1974
 CAJON WEST SUMMIT 52 STATION W28 1272 0
 SAN BERNARDINO COUNTY

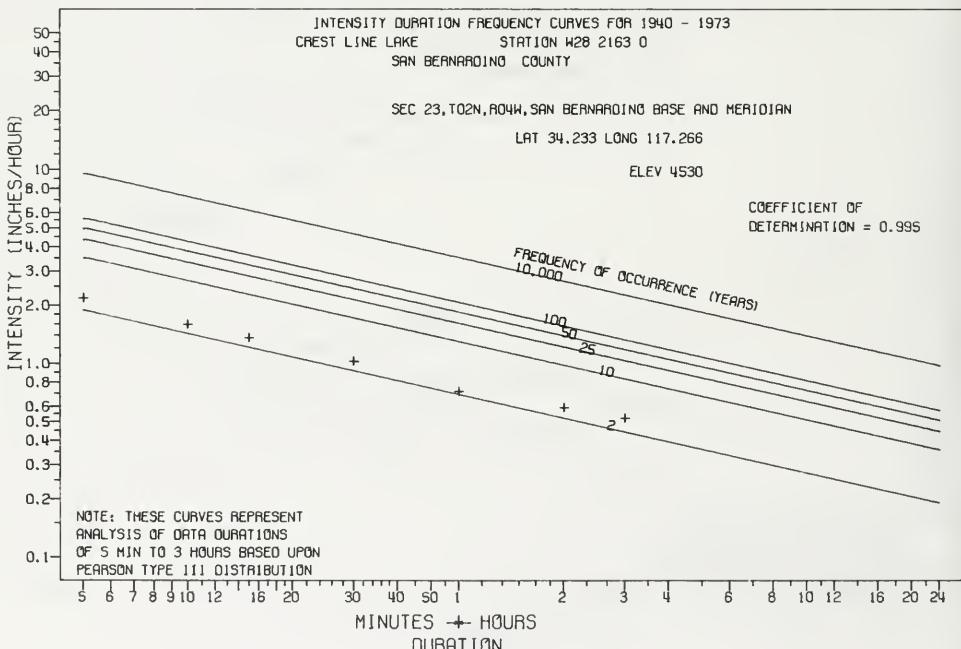
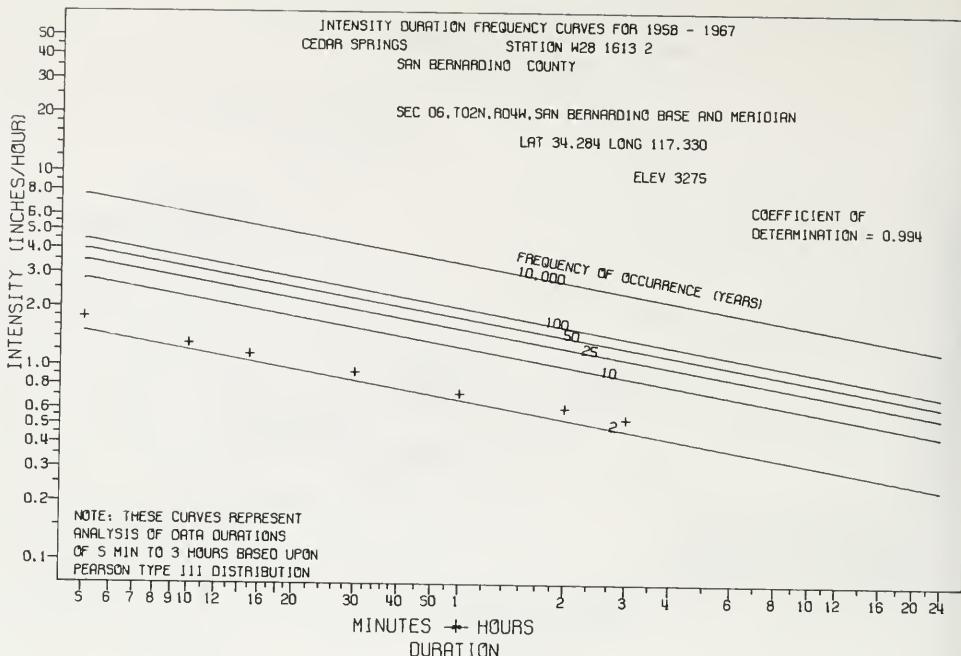
SEC 35, T09N, R07W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.390 LONG 117.574

ELEV 4780

COEFFICIENT OF
 DETERMINATION = 0.999





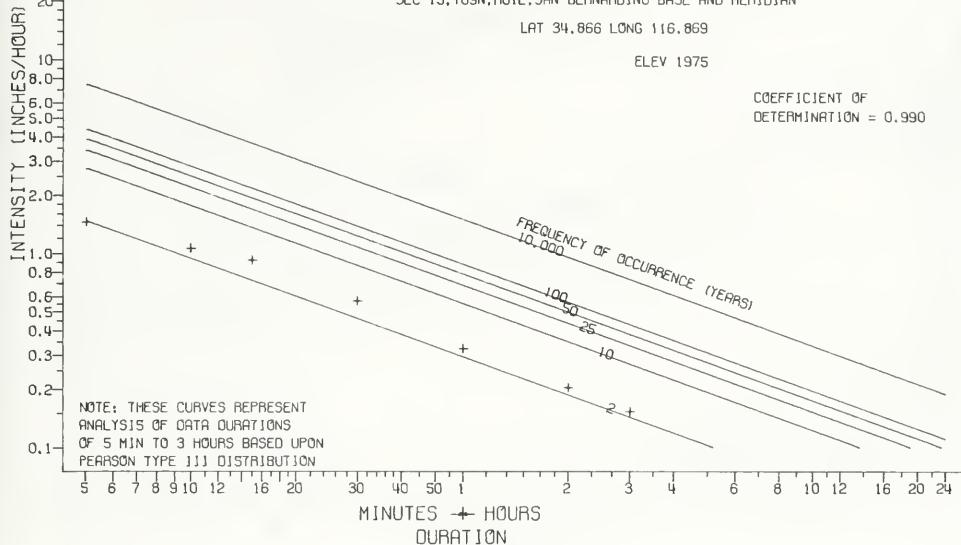
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1972
 DAGGETT RENE STATION W28 2255 0
 SAN BERNARDINO COUNTY

SEC 15, T09N, R01E, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.866 LONG 116.869

ELEV 1975

COEFFICIENT OF
 DETERMINATION = 0.990



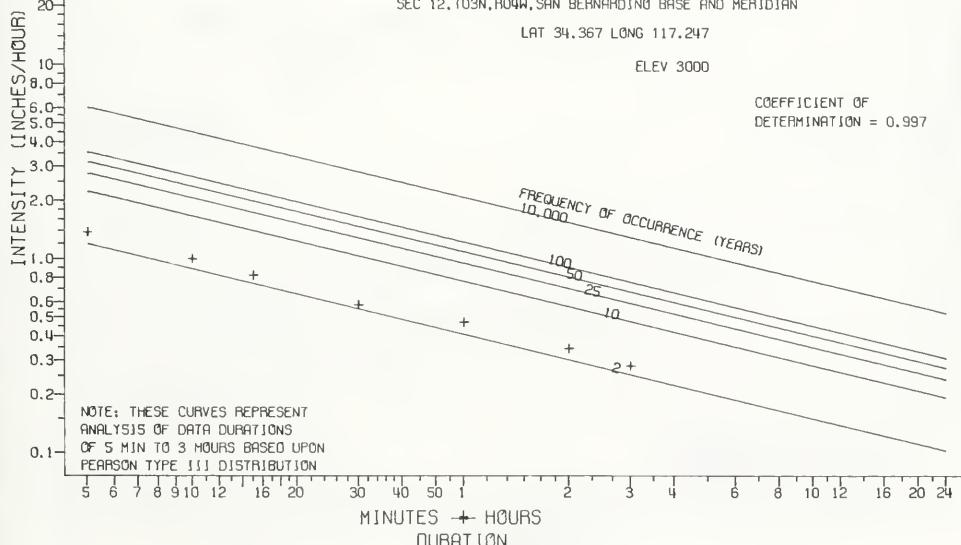
INTENSITY DURATION FREQUENCY CURVES FOR 1958 - 1971
 MAJOVE RIVER STATION W28 5756 50
 SAN BERNARDINO COUNTY

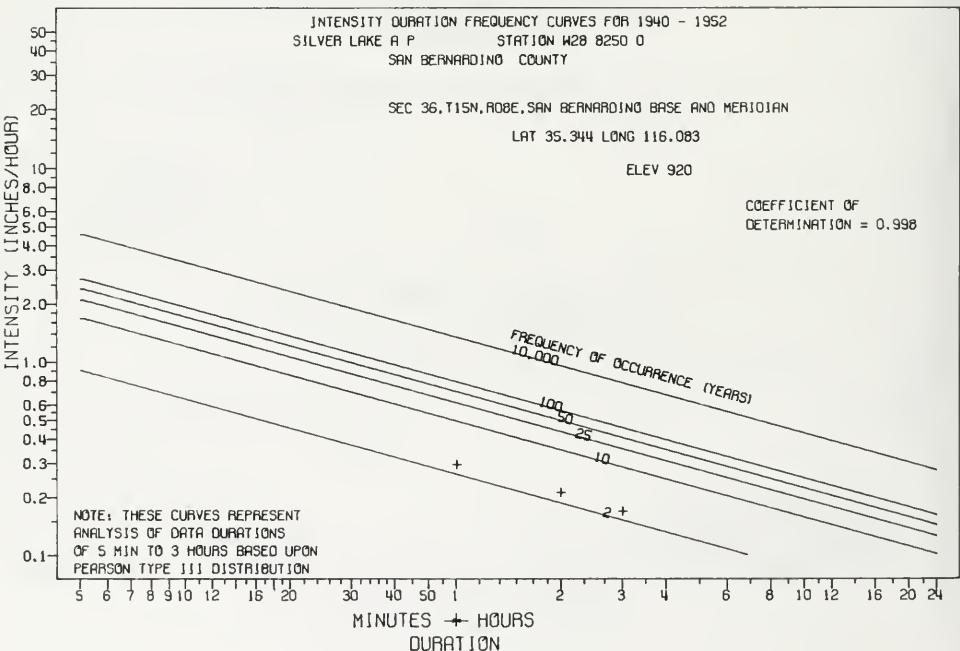
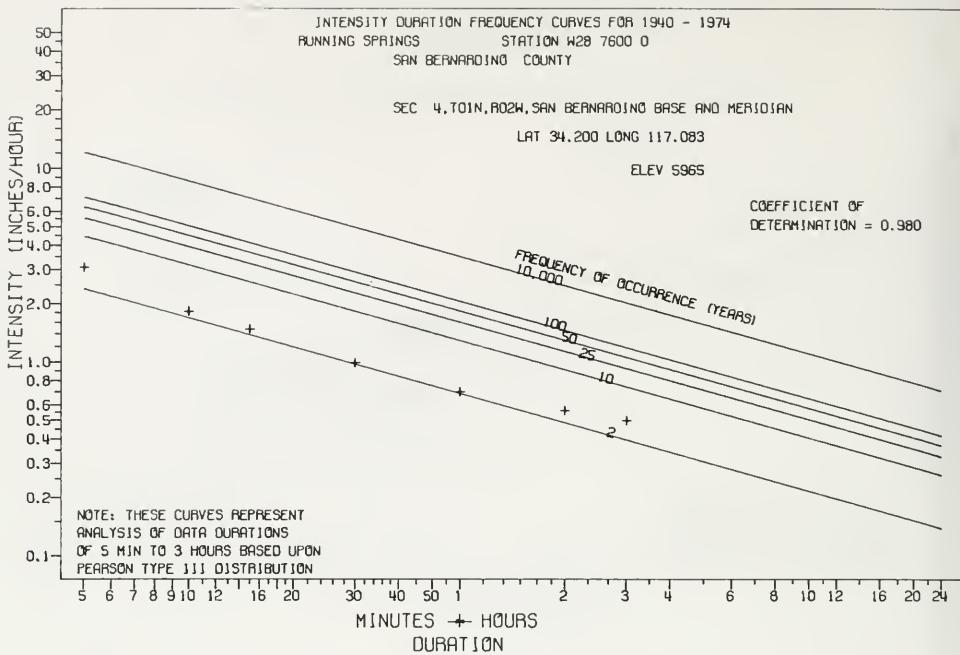
SEC 12, T09N, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.367 LONG 117.247

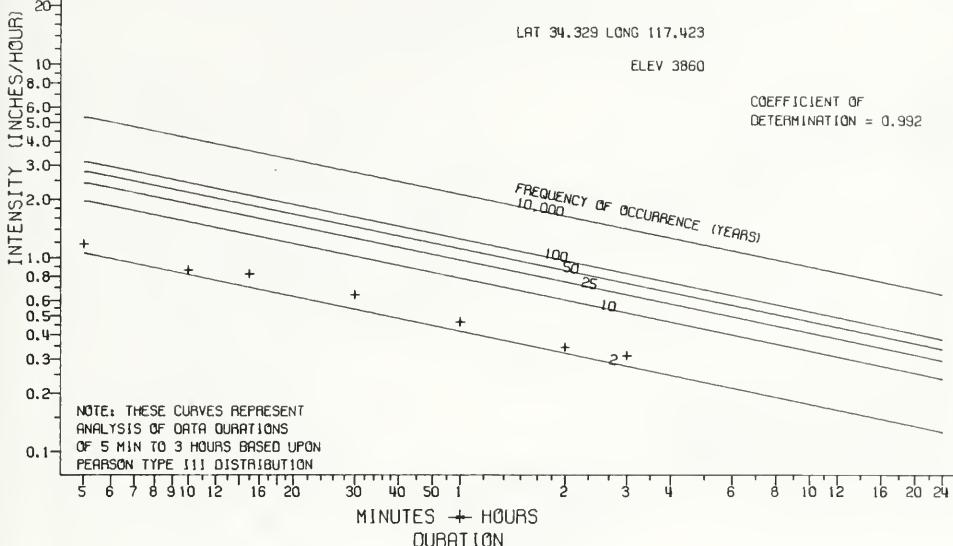
ELEV 3000

COEFFICIENT OF
 DETERMINATION = 0.997

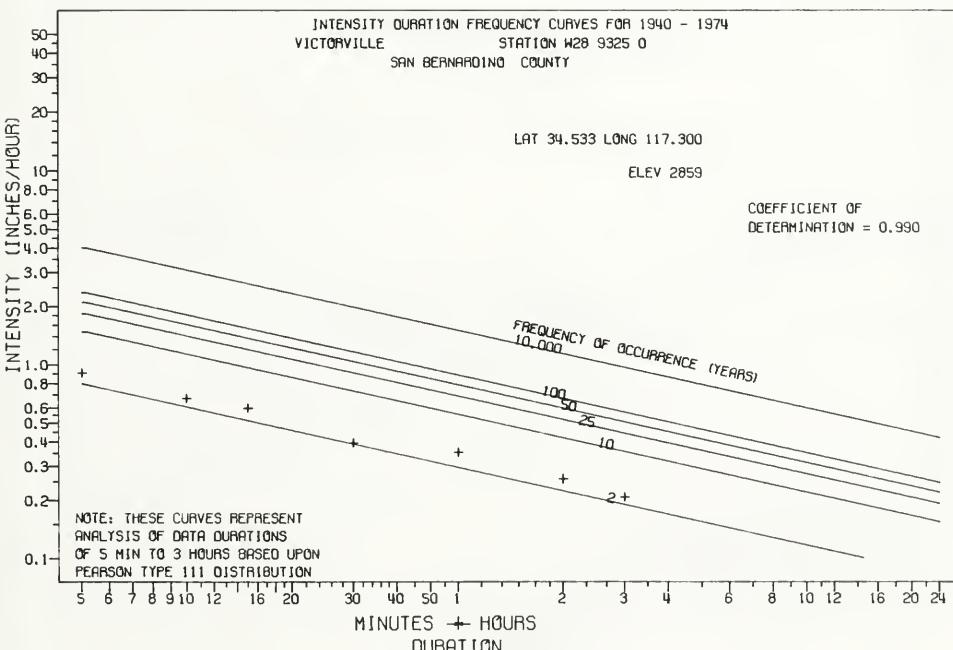


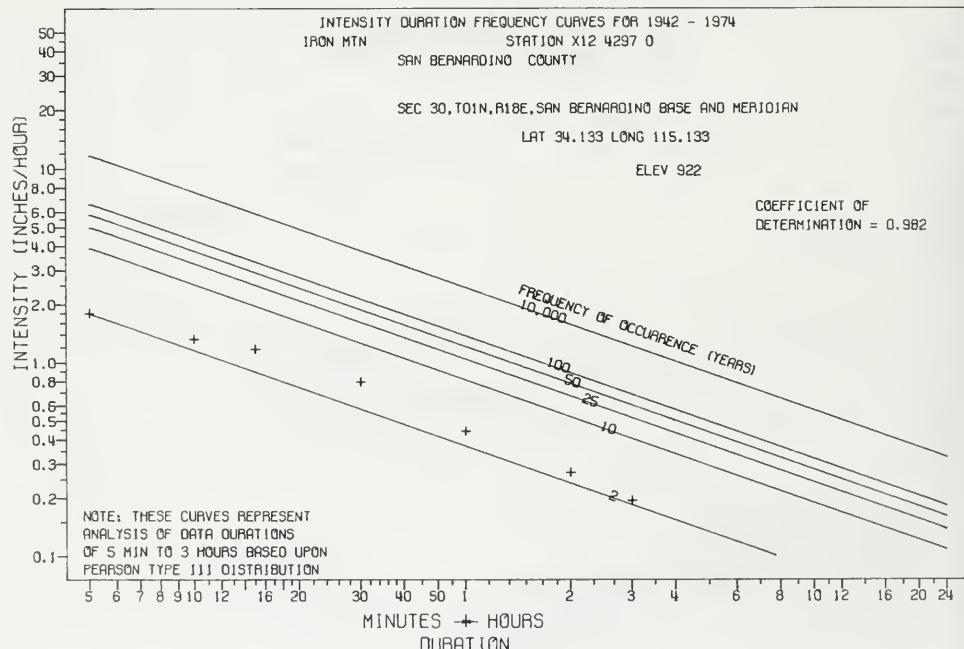
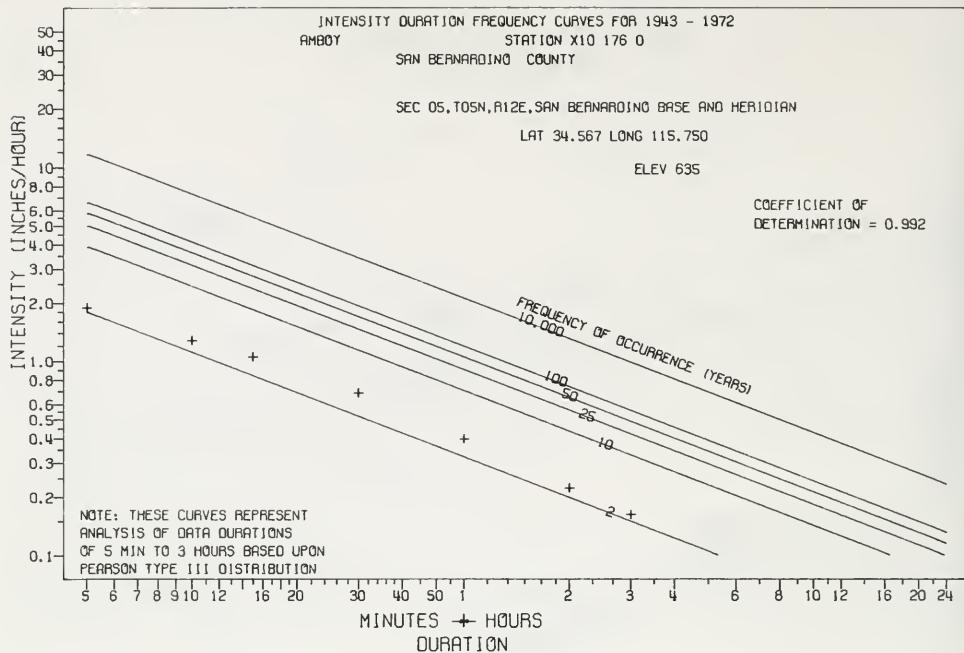


INTENSITY DURATION FREQUENCY CURVES FOR 1158 - 1174
 SUMMIT STATION W28 8643 80
 SAN BERNARDINO COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 VICTORVILLE STATION W28 9325 0
 SAN BERNARDINO COUNTY



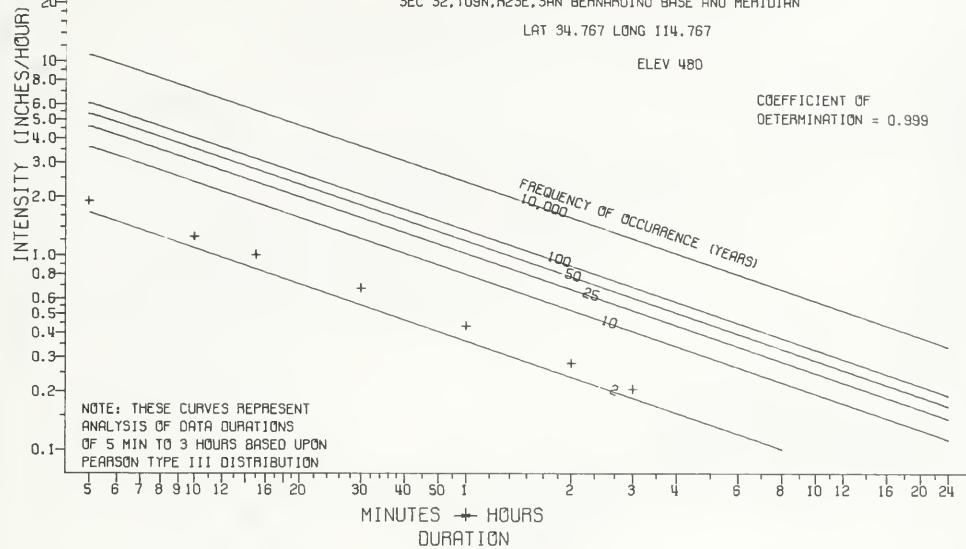


INTENSITY DURATION FREQUENCY CURVES FOR 1943 - 1974
 NEEDLES STATION X13 6115 0
 SAN BERNARDINO COUNTY

SEC 32, T09N, R23E, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.767 LONG 114.767

ELEV 480

COEFFICIENT OF
 DETERMINATION = 0.999

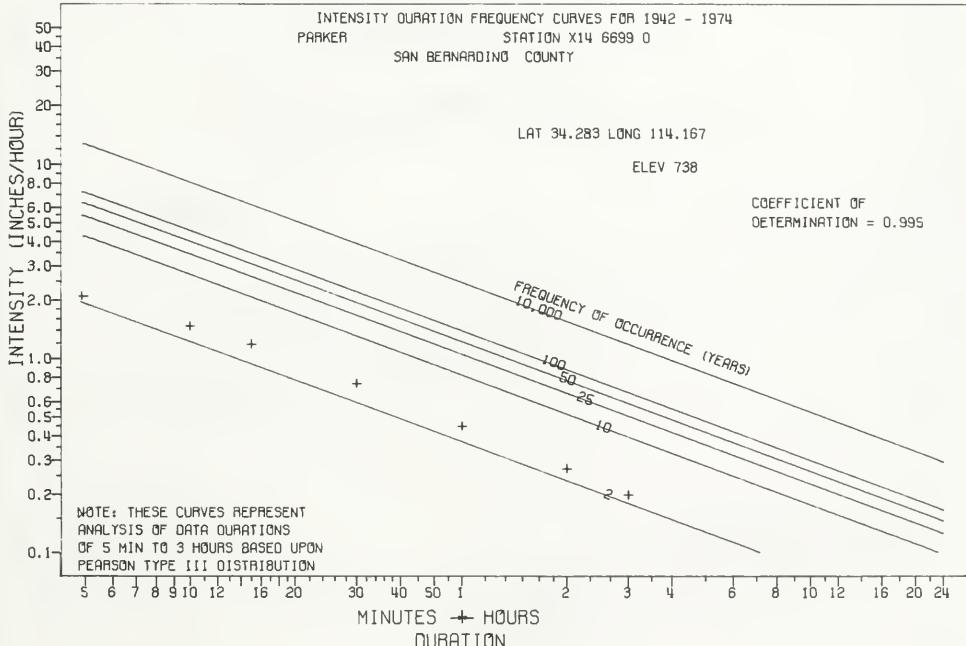


INTENSITY DURATION FREQUENCY CURVES FOR 1942 - 1974
 PARKER STATION X14 6699 0
 SAN BERNARDINO COUNTY

LAT 34.283 LONG 114.167

ELEV 738

COEFFICIENT OF
 DETERMINATION = 0.995



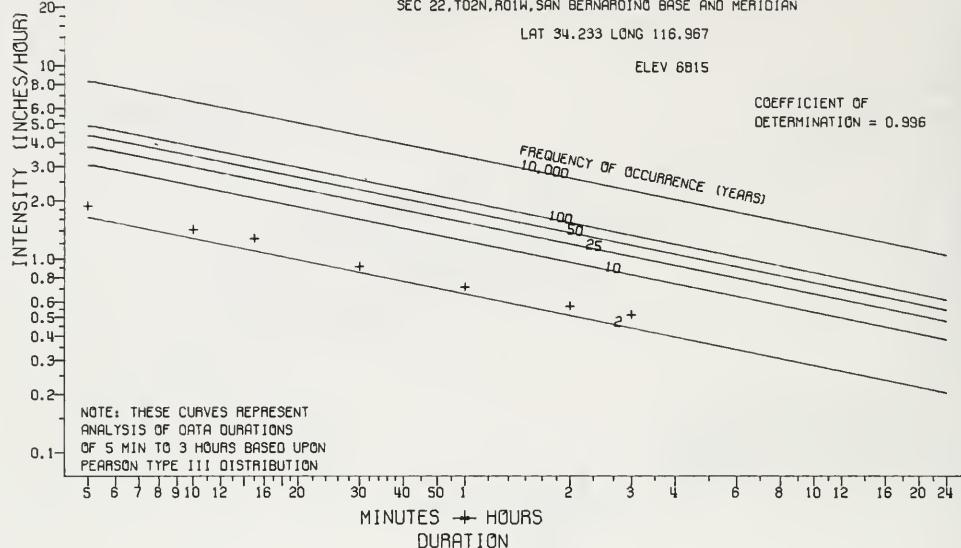
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 BIG BEAR LAKE DAM STATION Y01 742 0
 SAN BERNARDINO COUNTY

SEC 22, T02N, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.233 LONG 116.967

ELEV 6815

COEFFICIENT OF
 DETERMINATION = 0.996



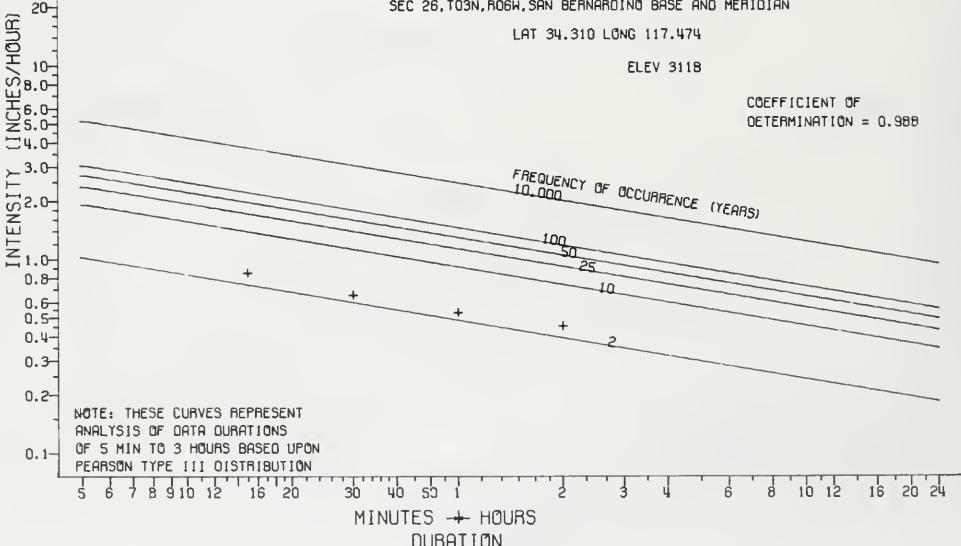
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1972
 CAJON JUNCTION STATION Y01 1267 1
 SAN BERNARDINO COUNTY

SEC 26, T03N, R06W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.310 LONG 117.474

ELEV 3118

COEFFICIENT OF
 DETERMINATION = 0.988



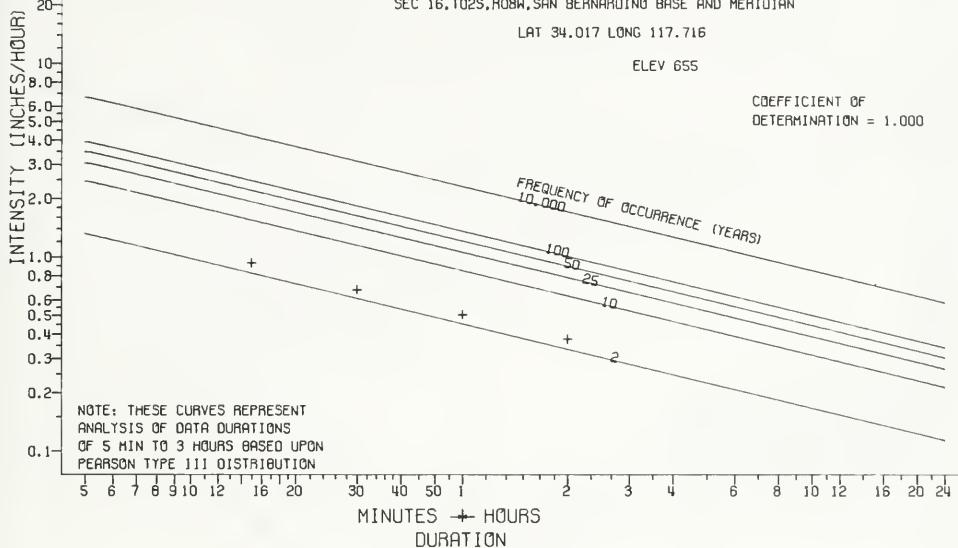
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1972
CHINO FIRE STATION 20C STATION Y01 1732 B
SAN BERNARDINO COUNTY

SEC 16, T02S, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.017 LONG 117.716

ELEV 655

COEFFICIENT OF
DETERMINATION = 1.000



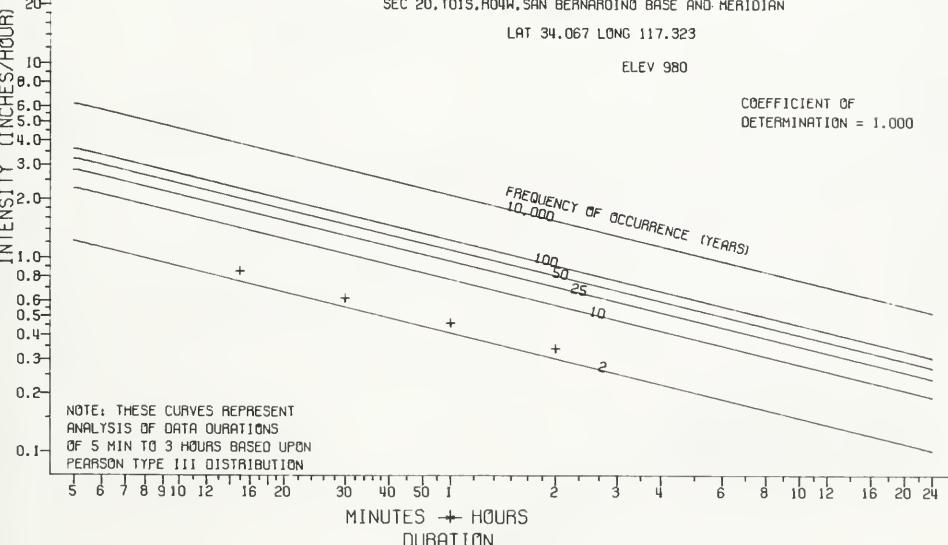
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1972
COLTON CITY HALL 27STATION Y01 1941 2
SAN BERNARDINO COUNTY

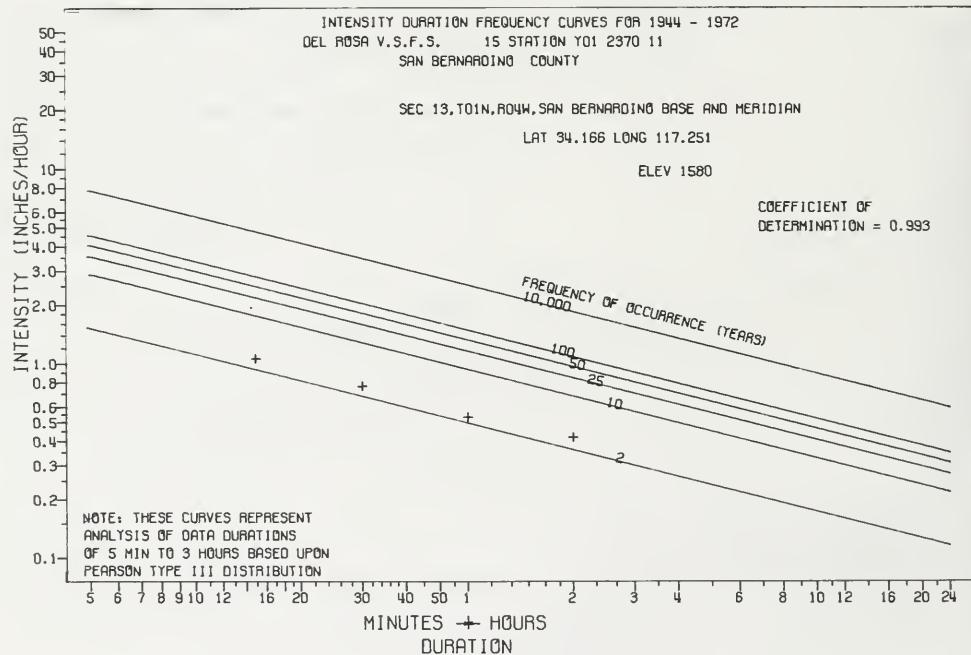
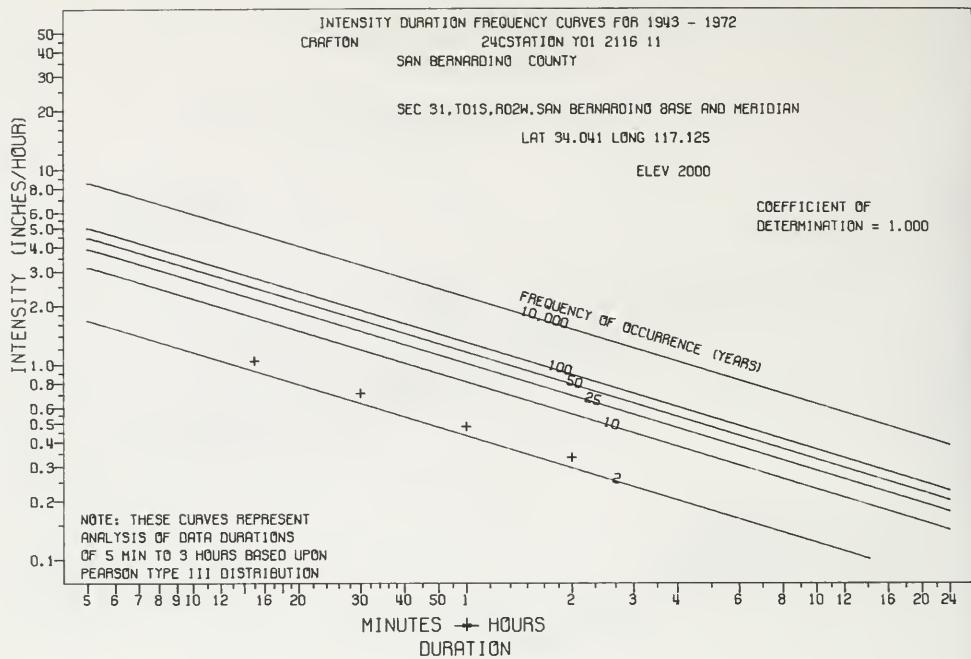
SEC 20, T01S, R04W, SAN BERNARDINO BASE AND MERIDIAN

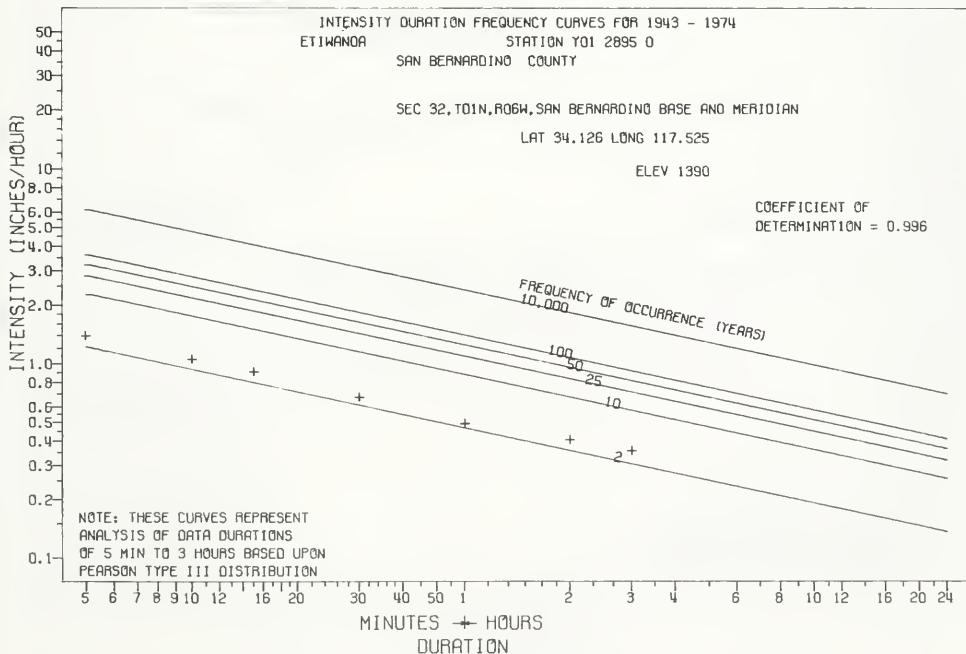
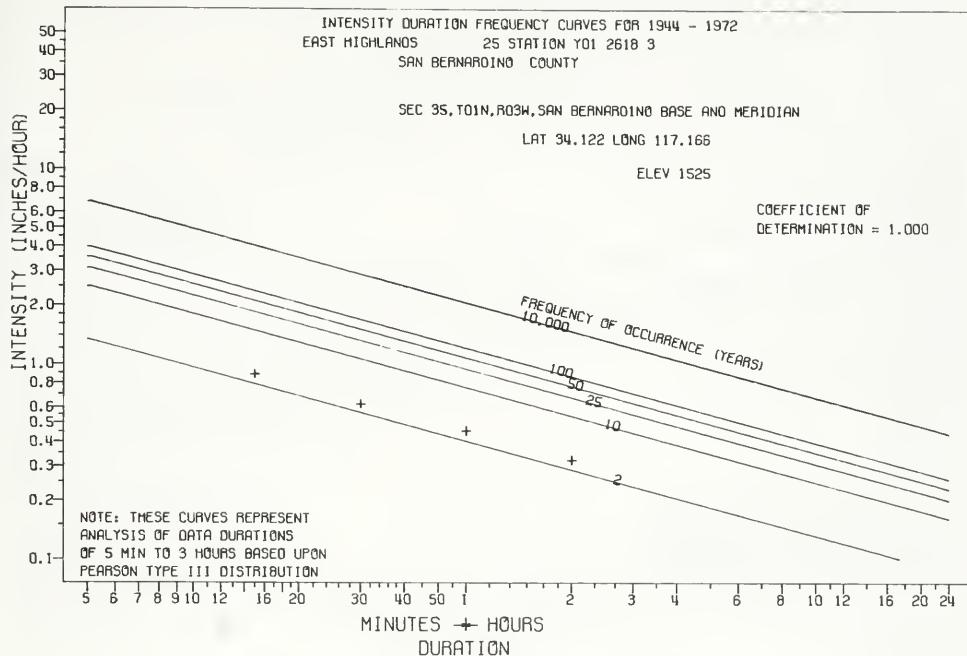
LAT 34.067 LONG 117.323

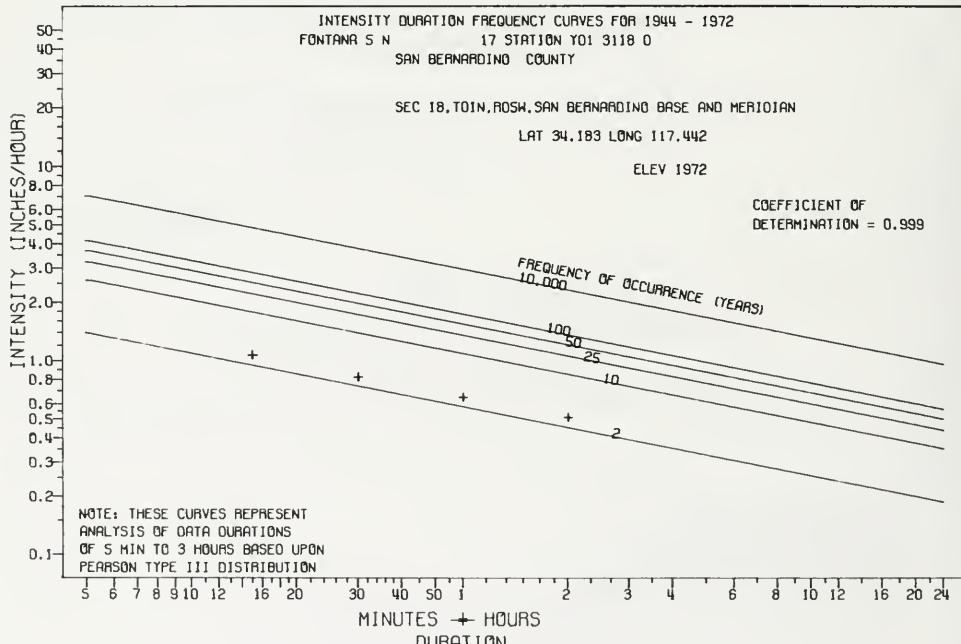
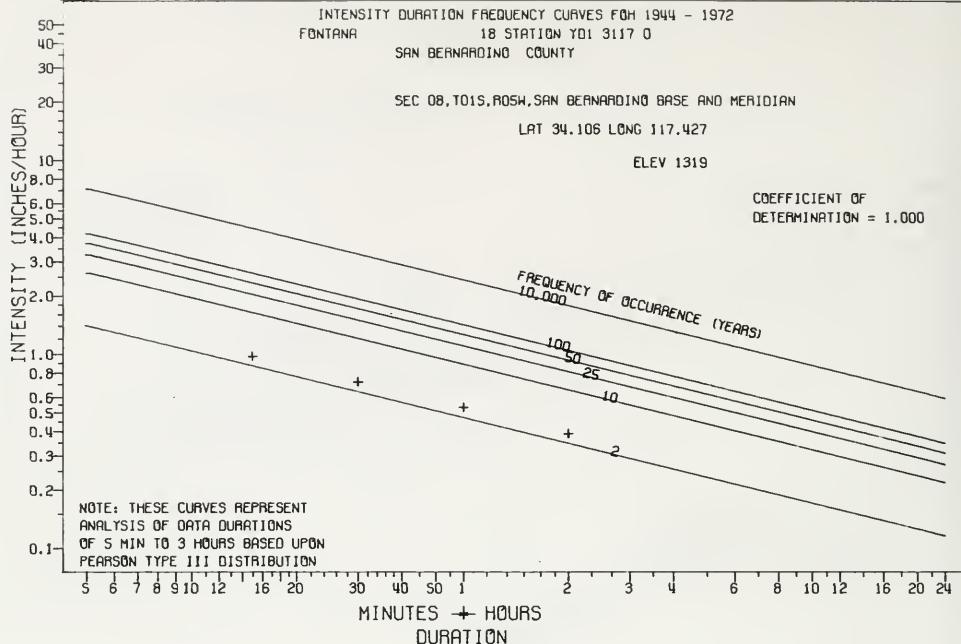
ELEV 980

COEFFICIENT OF
DETERMINATION = 1.000









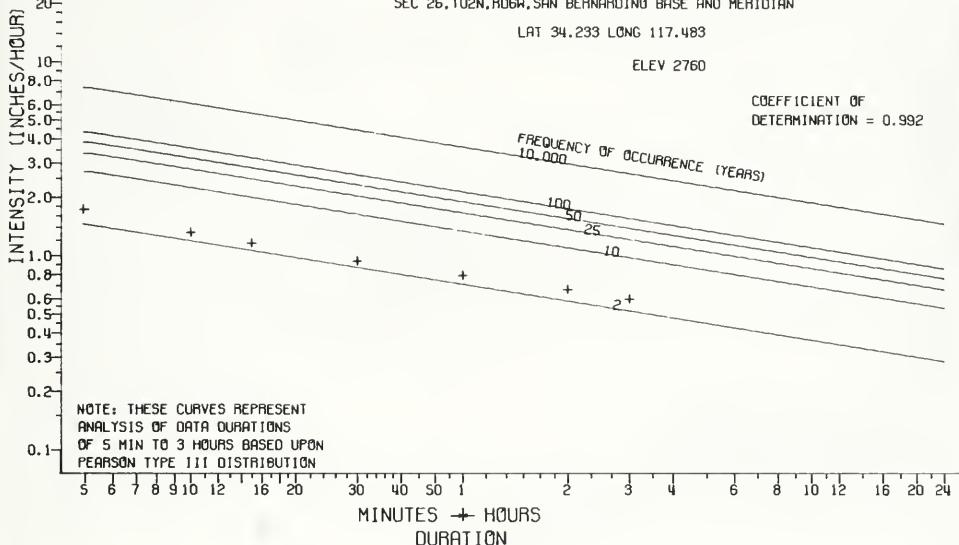
INTENSITY DURATION FREQUENCY CURVES FOR 1949 - 1974
LYTLE CREEK POWER HOUSE STATION Y01 5218 0
SAN BERNARDINO COUNTY

SEC 26, T02N, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.233 LONG 117.483

ELEV 2760

COEFFICIENT OF
DETERMINATION = 0.992



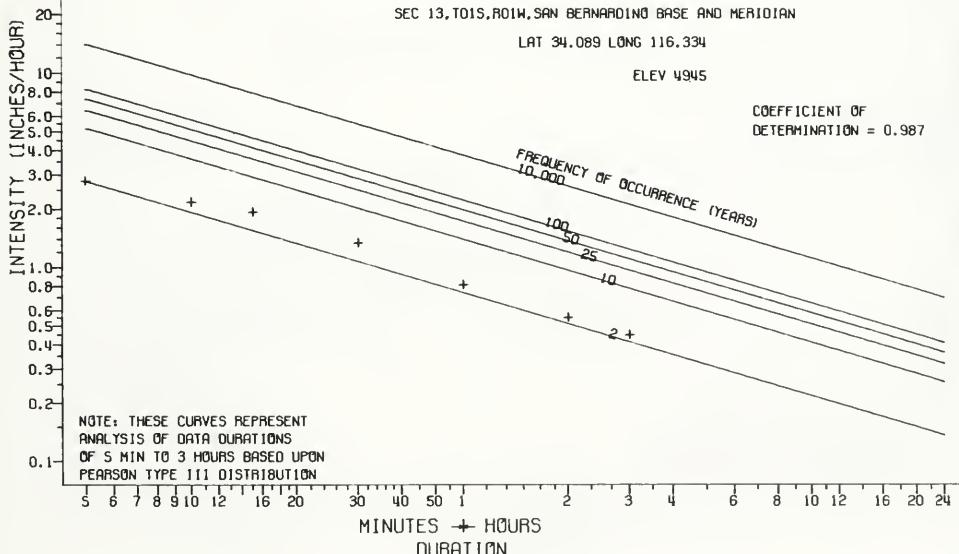
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1973
MILL CREEK INTAKE STATION Y01 5632 0
SAN BERNARDINO COUNTY

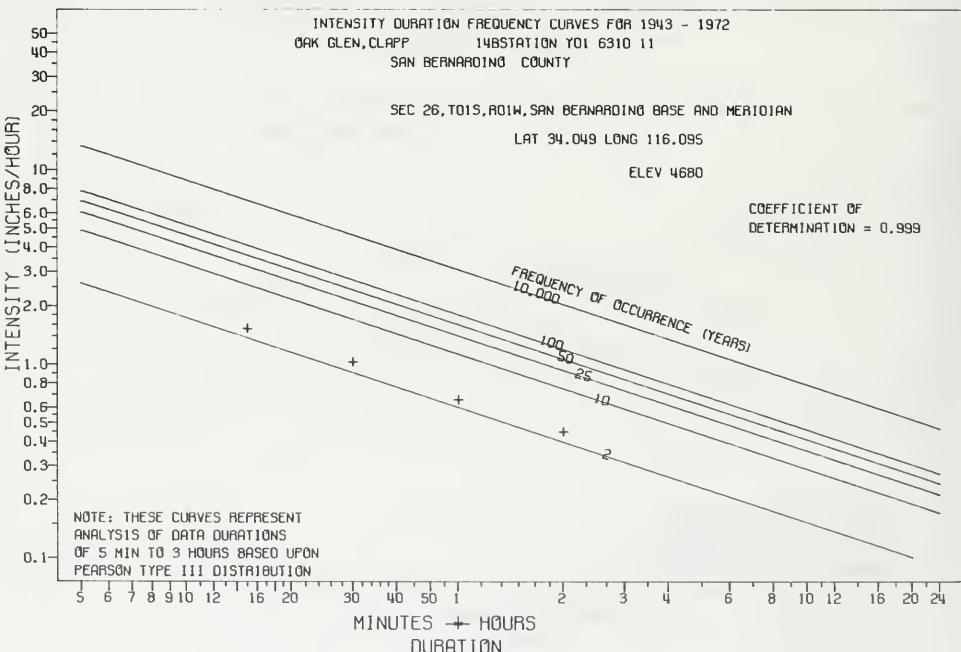
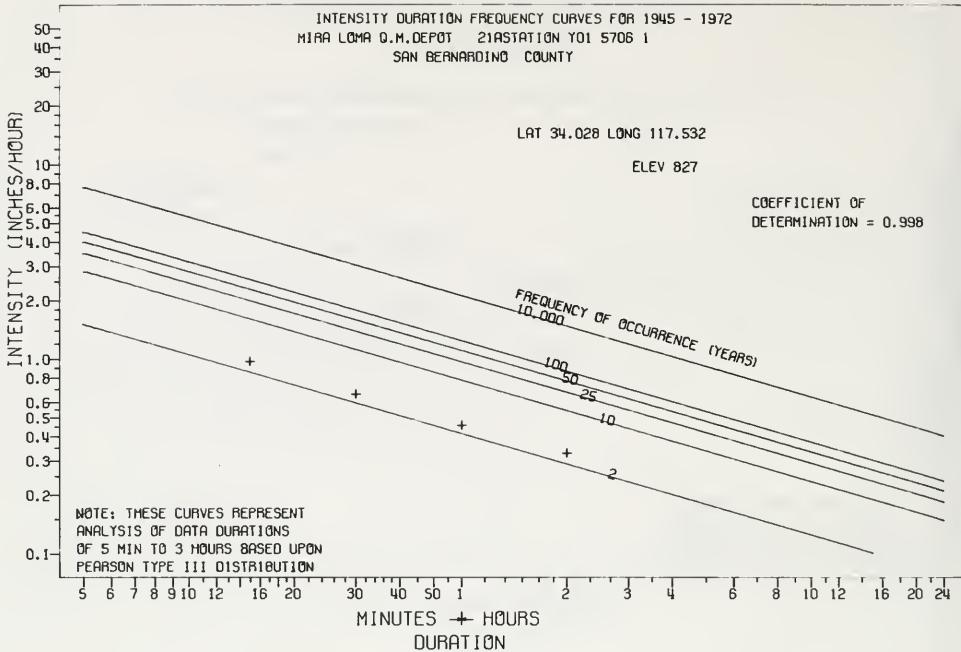
SEC 13, T01S, R01W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.089 LONG 116.334

ELEV 4945

COEFFICIENT OF
DETERMINATION = 0.987





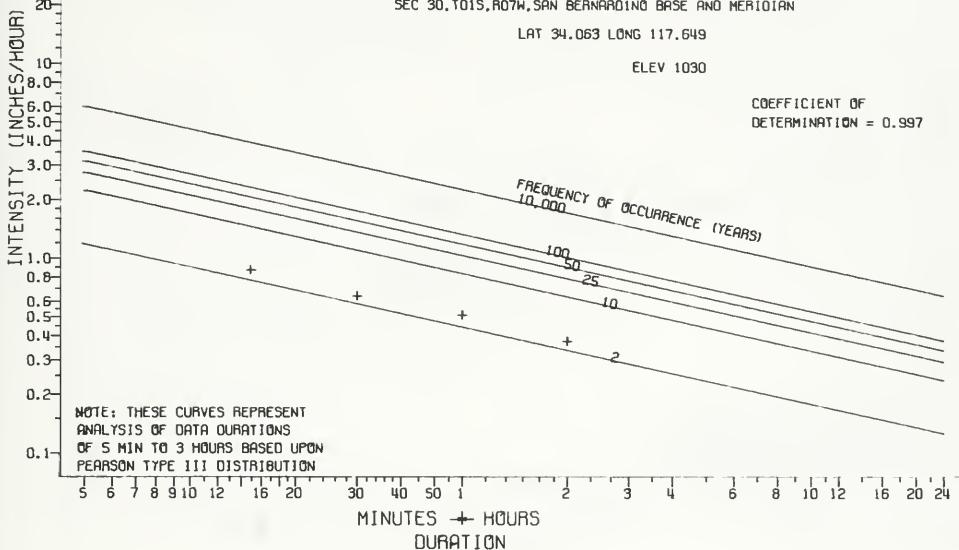
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1972
 ONTARIO FIRE HALL 26 STATION Y01 6457 2
 SAN BERNARDINO COUNTY

SEC 30, T01S, R07W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.063 LONG 117.649

ELEV 1030

COEFFICIENT OF
 DETERMINATION = 0.997



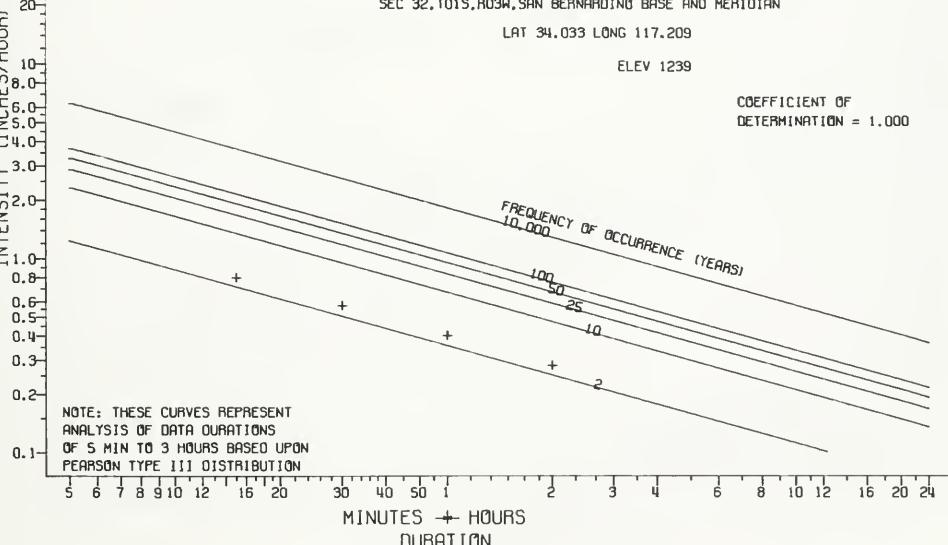
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1972
 REOLANDS, ROTH 23 STATION Y01 7306 1
 SAN BERNARDINO COUNTY

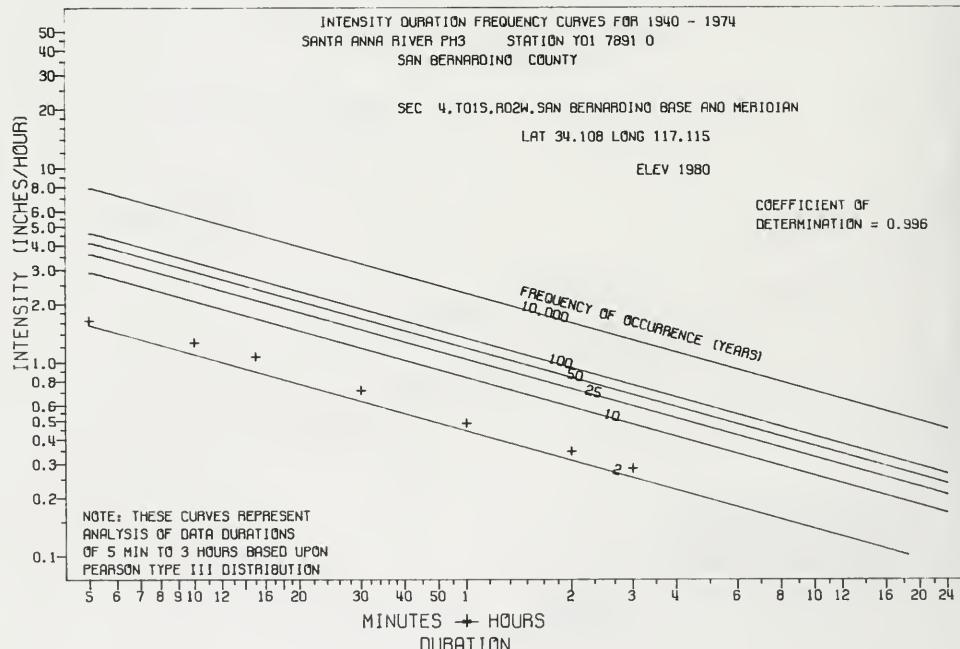
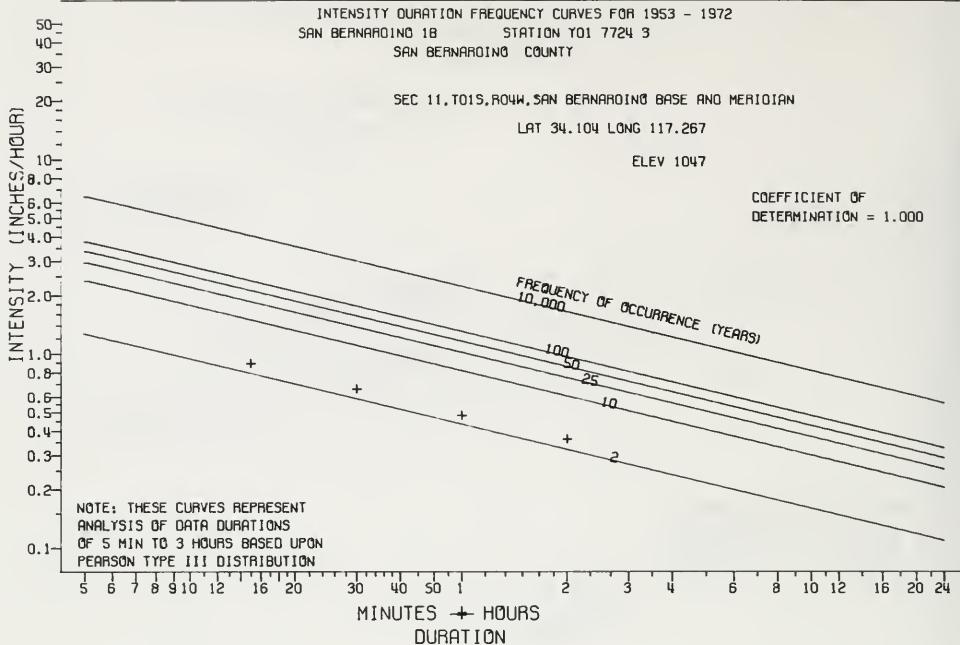
SEC 32, T01S, R03W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.033 LONG 117.209

ELEV 1239

COEFFICIENT OF
 DETERMINATION = 1.000





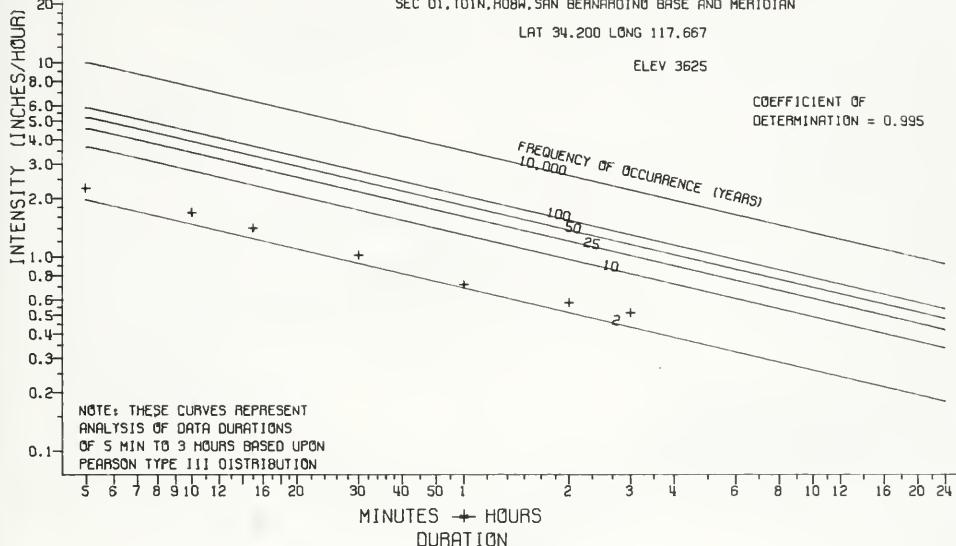
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1965
 SIERRA POWER HOUSE STATION Y01 8213 0
 SAN BERNARDINO COUNTY

SEC 01, T01N, R08W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.200 LONG 117.667

ELEV 3625

COEFFICIENT OF
 DETERMINATION = 0.995



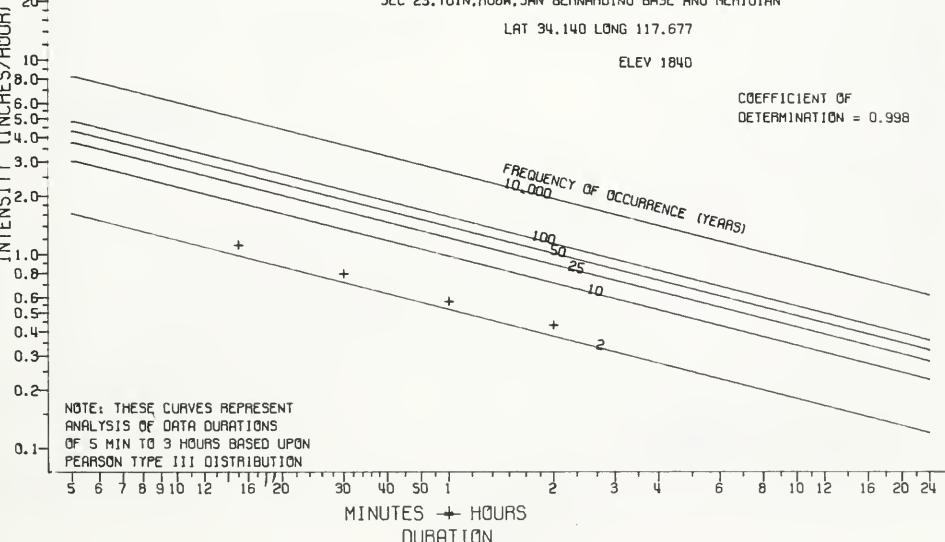
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1972
 UPLAND FC6508 19A STATION Y01 9157 0
 SAN BERNARDINO COUNTY

SEC 25, T01N, R08W, SAN BERNARDINO BASE AND MERIDIAN

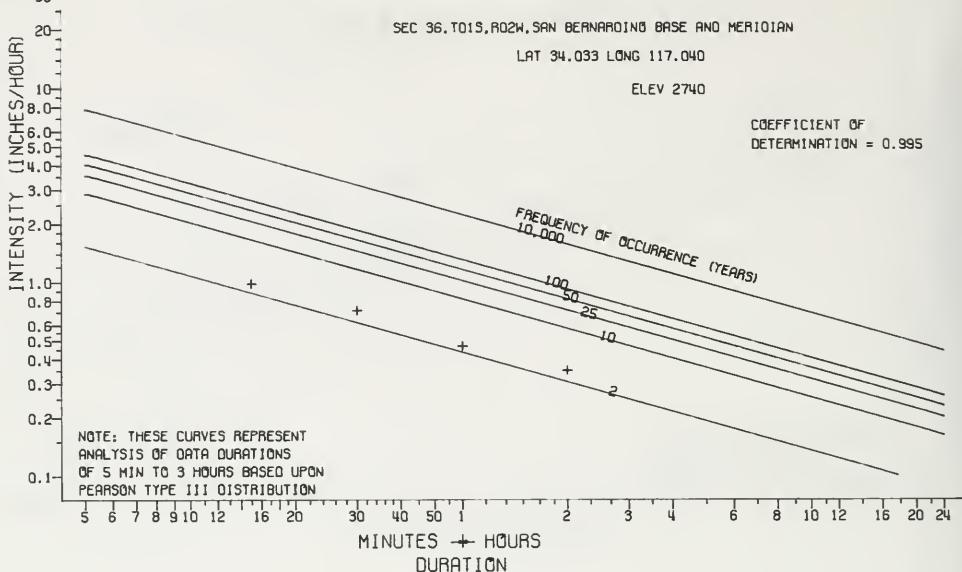
LAT 34.140 LONG 117.677

ELEV 1840

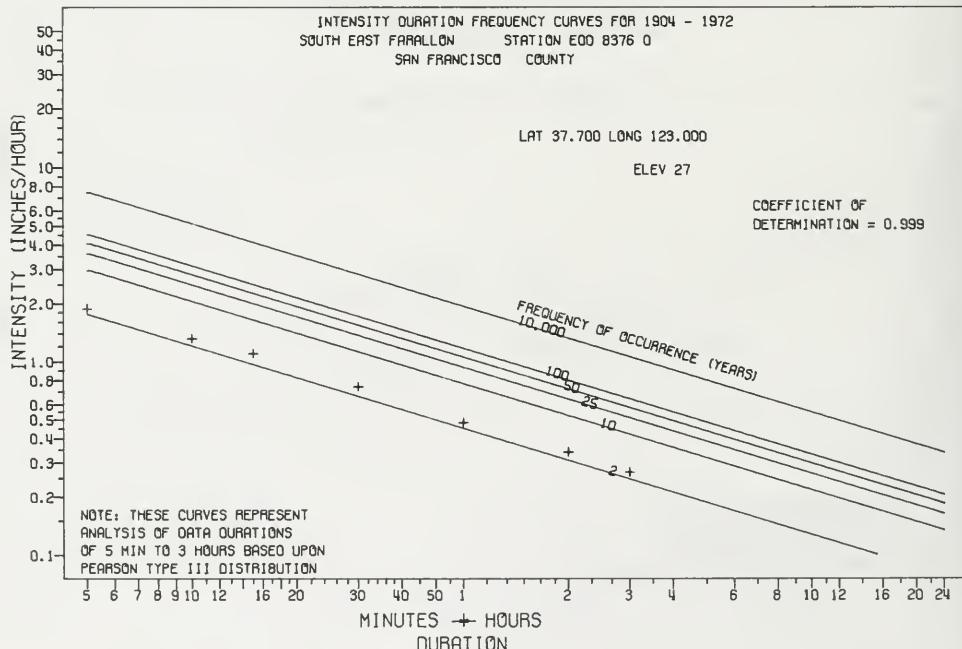
COEFFICIENT OF
 DETERMINATION = 0.998



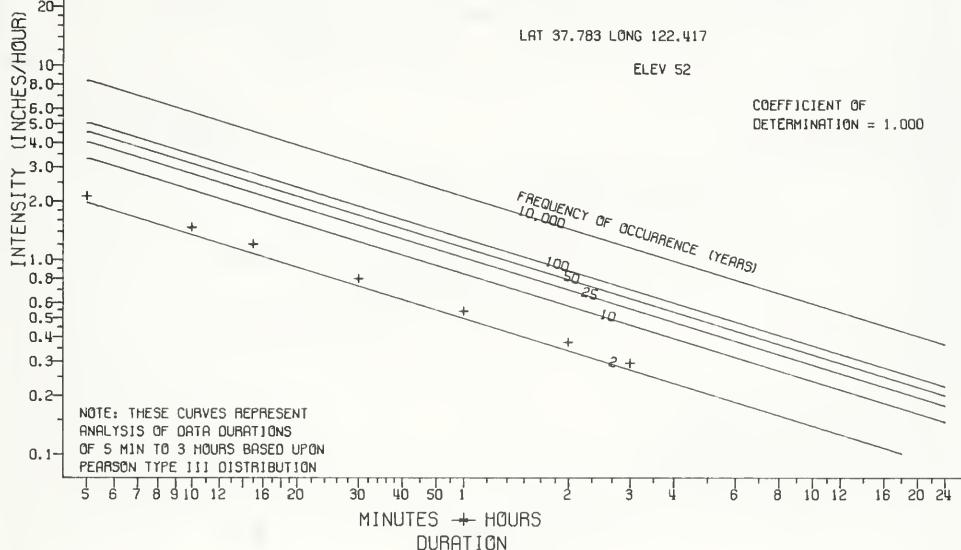
INTENSITY DURATION FREQUENCY CURVES FOR 1943 - 1972
 YUCAIPA WATER CO. 132 STATION T01 9875 2
 SAN BERNARDINO COUNTY



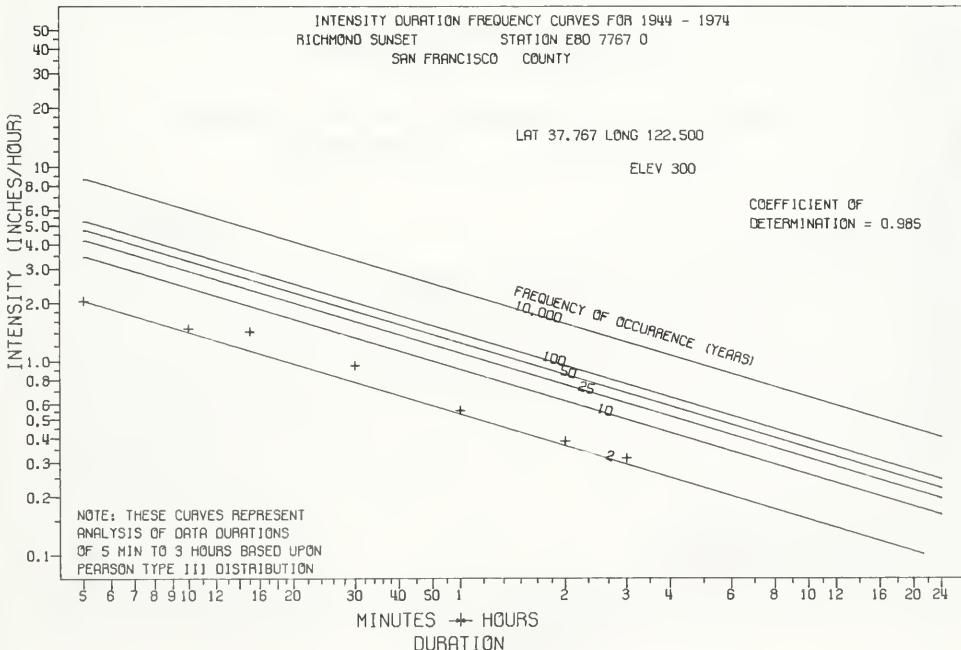
INTENSITY DURATION FREQUENCY CURVES FOR 1904 - 1972
 SOUTH EAST FARALLON STATION E00 8376 0
 SAN FRANCISCO COUNTY

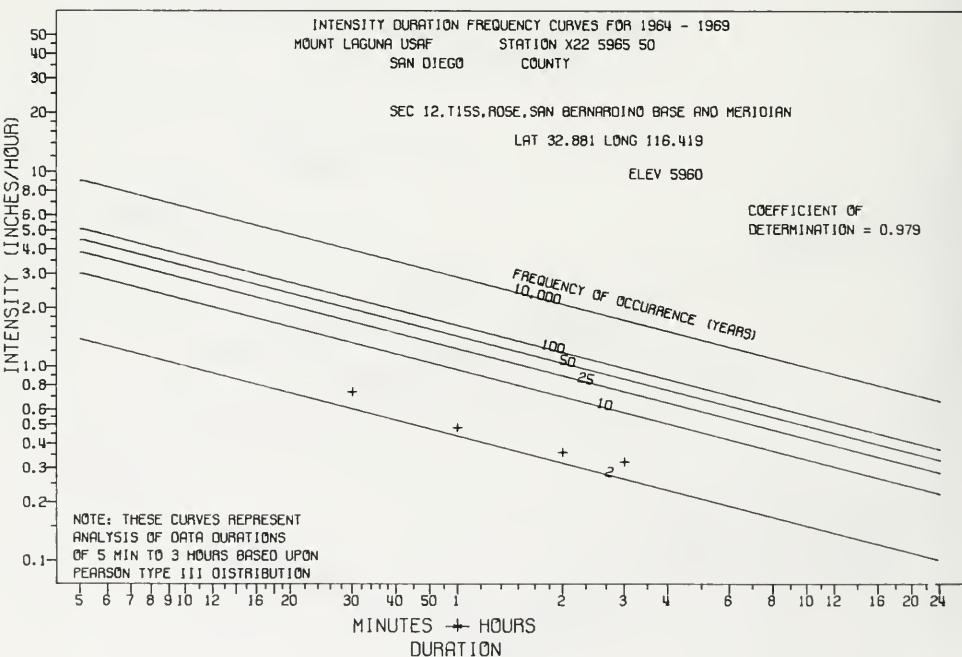
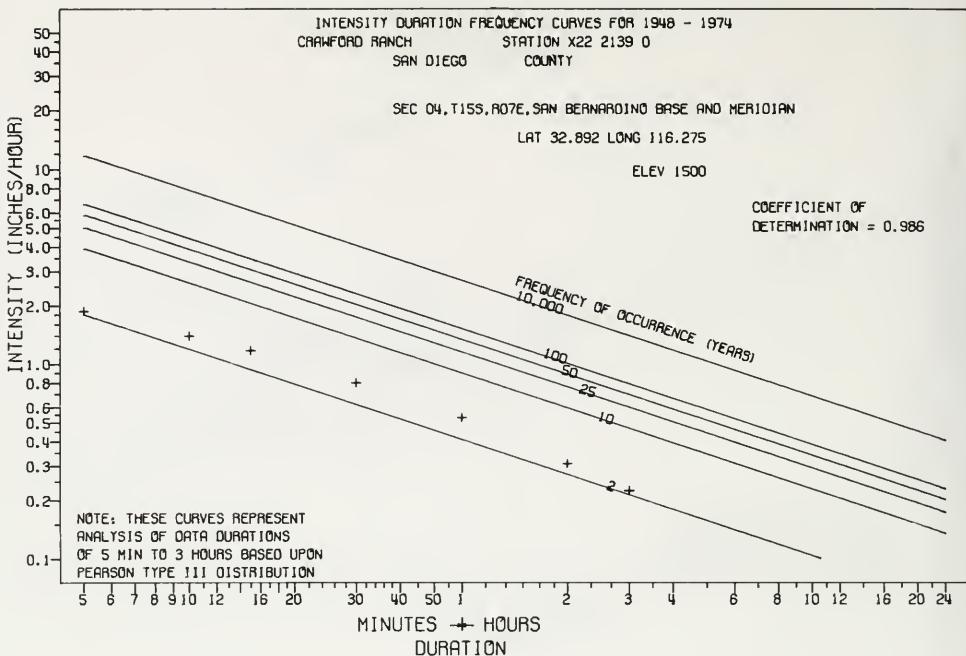


INTENSITY DURATION FREQUENCY CURVES FOR 1890 - 1975
 SAN FRANCISCO FOB NWS STATION E70 7772 0
 SAN FRANCISCO COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 RICHMOND SUNSET STATION E80 7767 0
 SAN FRANCISCO COUNTY



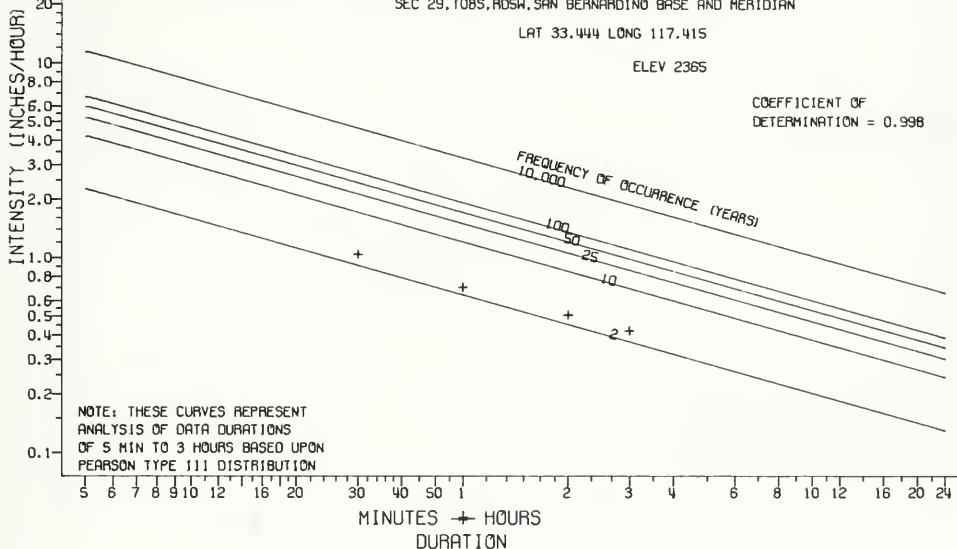


INTENSITY DURATION FREQUENCY CURVES FOR 1967 - 1975
CASE SPRINGS USMC STATION Z01 1557 75
SAN DIEGO COUNTY

SEC 29, T0BS, R0SW, SAN BERNARDINO BASE AND MERIDIAN
LAT 33.444 LONG 117.415

ELEV 2365

COEFFICIENT OF
DETERMINATION = 0.998

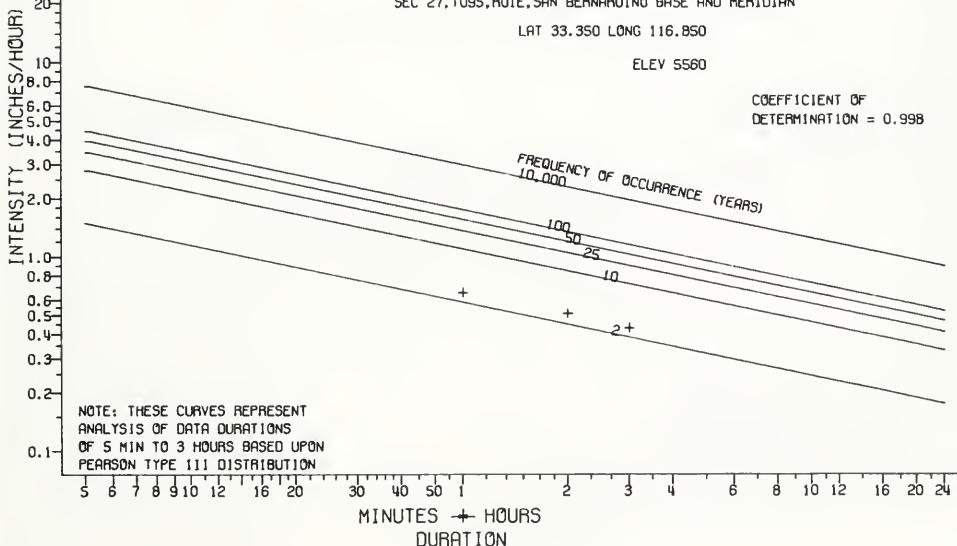


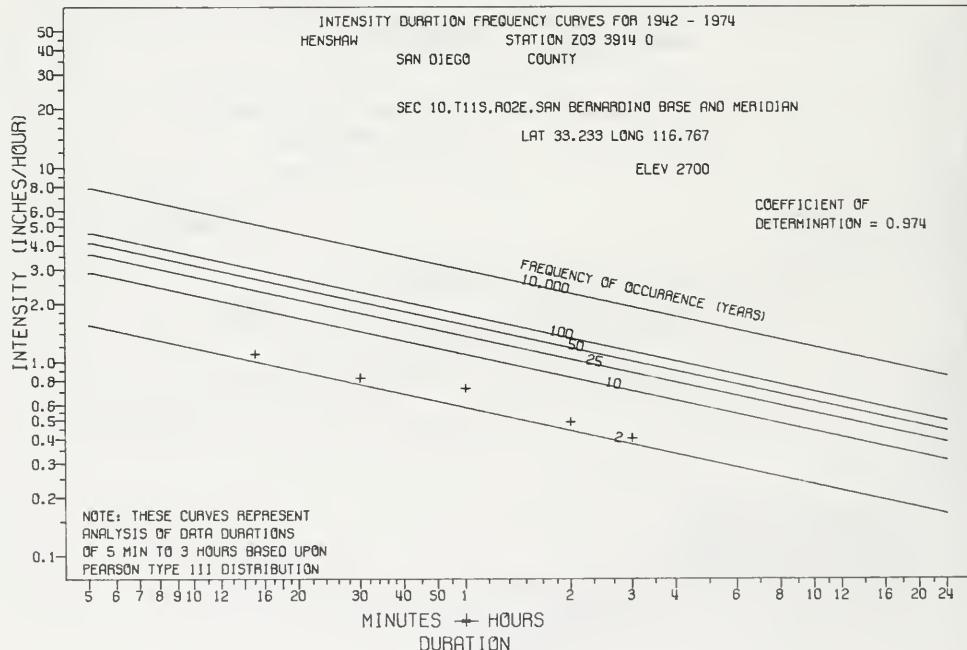
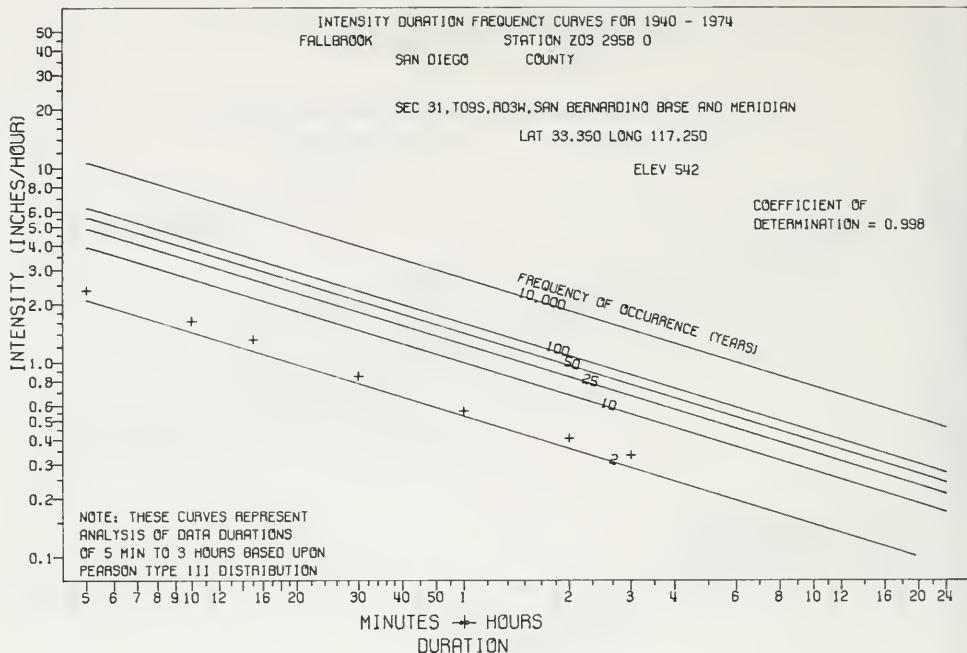
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
PALOMAR MTN OBS STATION Z02 6657 0
SAN DIEGO COUNTY

SEC 27, T09S, R01E, SAN BERNARDINO BASE AND MERIDIAN
LAT 33.350 LONG 116.850

ELEV 5560

COEFFICIENT OF
DETERMINATION = 0.998





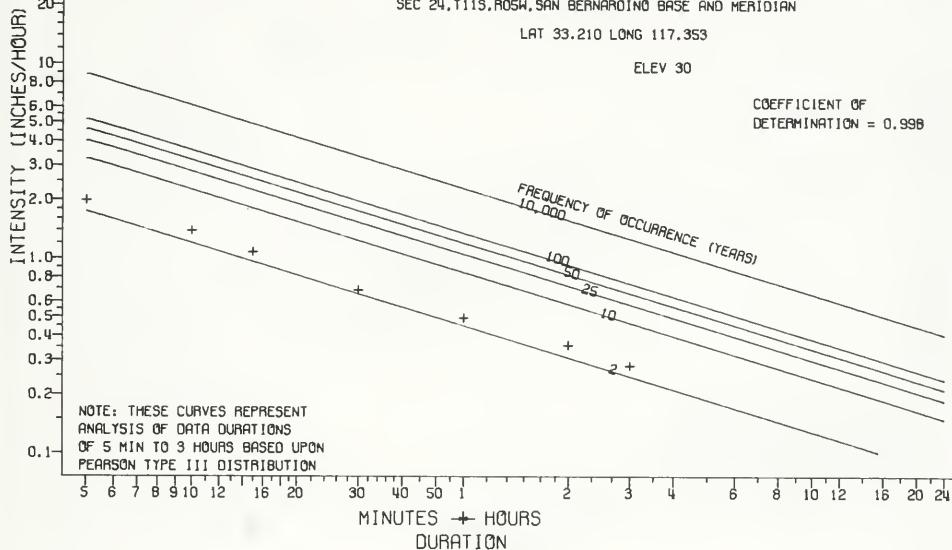
INTENSITY DURATION FREQUENCY CURVES FOR 1942 - 1974
 OCEANSIDE PUMP PLANT STATION Z03 6379 0
 SAN DIEGO COUNTY

SEC 24, T11S, R05W, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.210 LONG 117.353

ELEV 30

COEFFICIENT OF
 DETERMINATION = 0.998

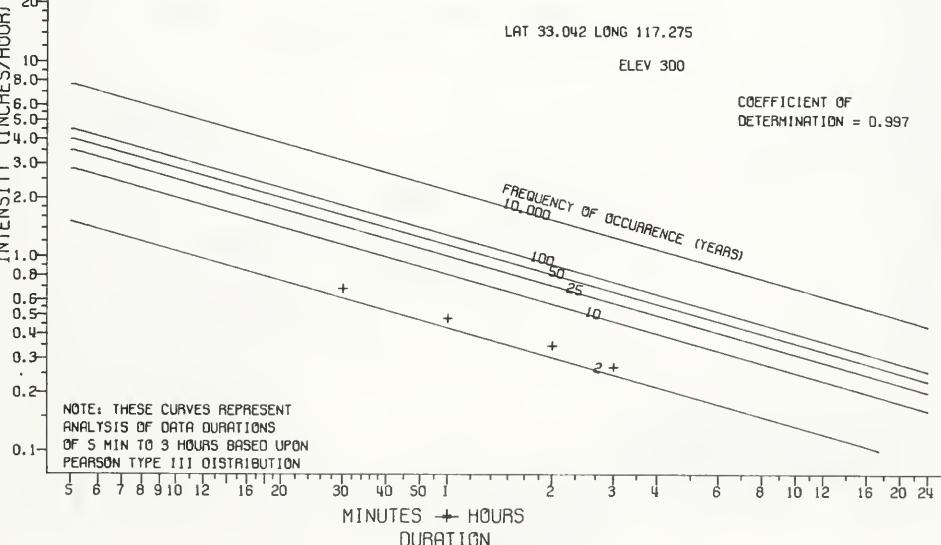


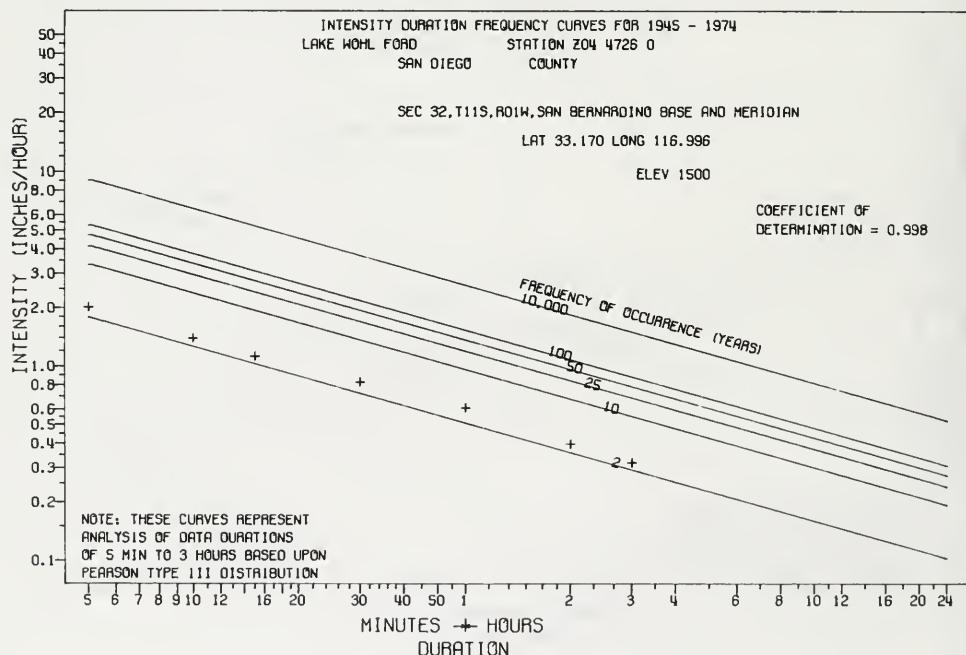
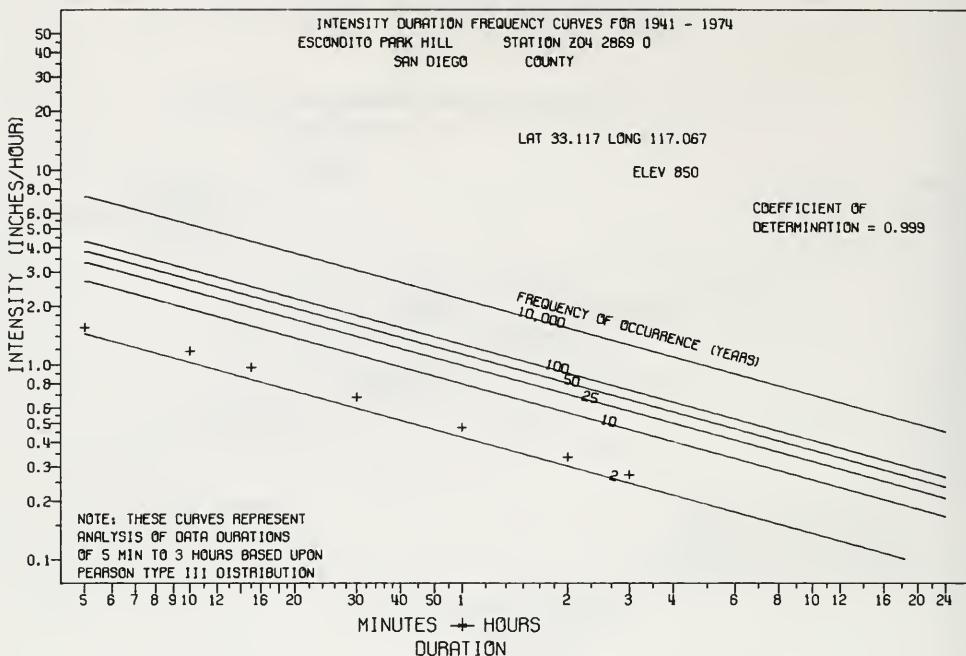
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1975
 ENCINITAS STATION Z04 2833 10
 SAN DIEGO COUNTY

LAT 33.042 LONG 117.275

ELEV 300

COEFFICIENT OF
 DETERMINATION = 0.997





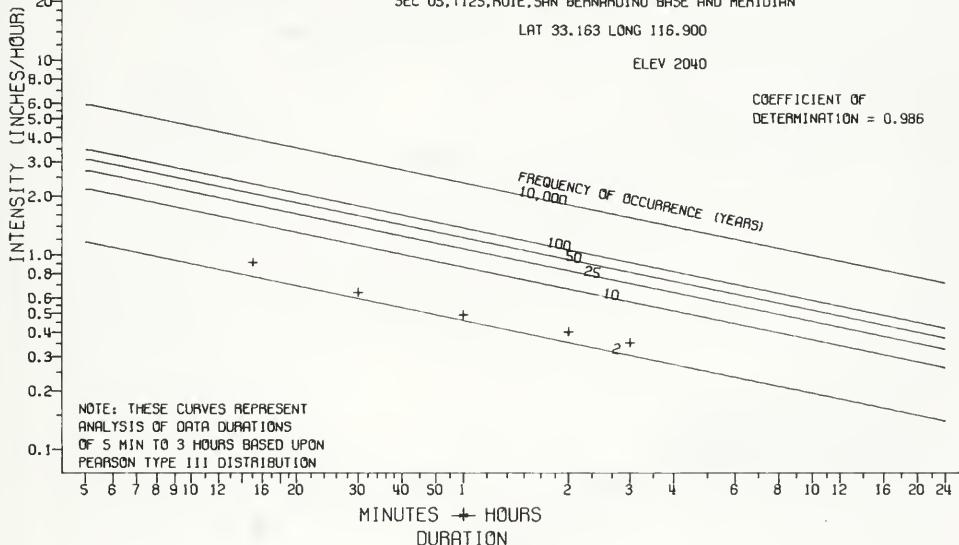
INTENSITY DURATION FREQUENCY CURVES FOR 1966 - 1975
 VINEYARD RANCH STATION ZOS 934B 50
 SAN DIEGO COUNTY

SEC 05, T12S, R01E, SAN BERNARDINO BASE AND MERIDIAN

LAT 33.163 LONG 116.900

ELEV 2040

COEFFICIENT OF
 DETERMINATION = 0.986

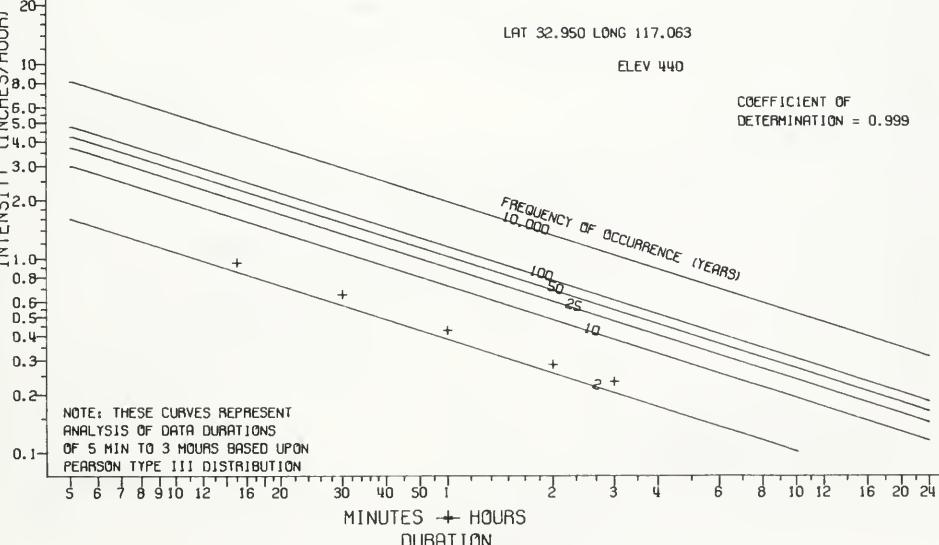


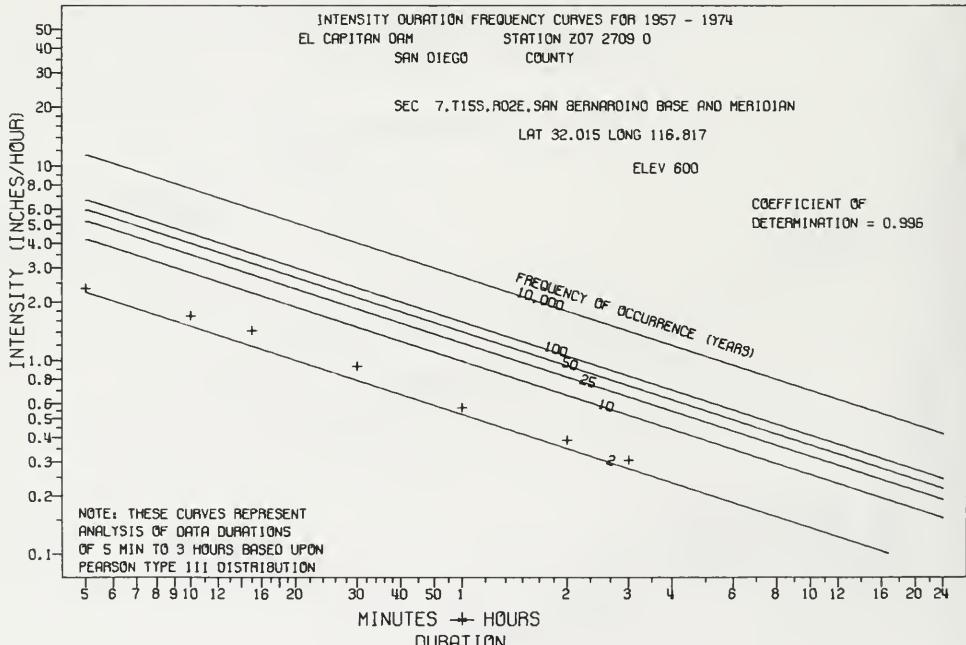
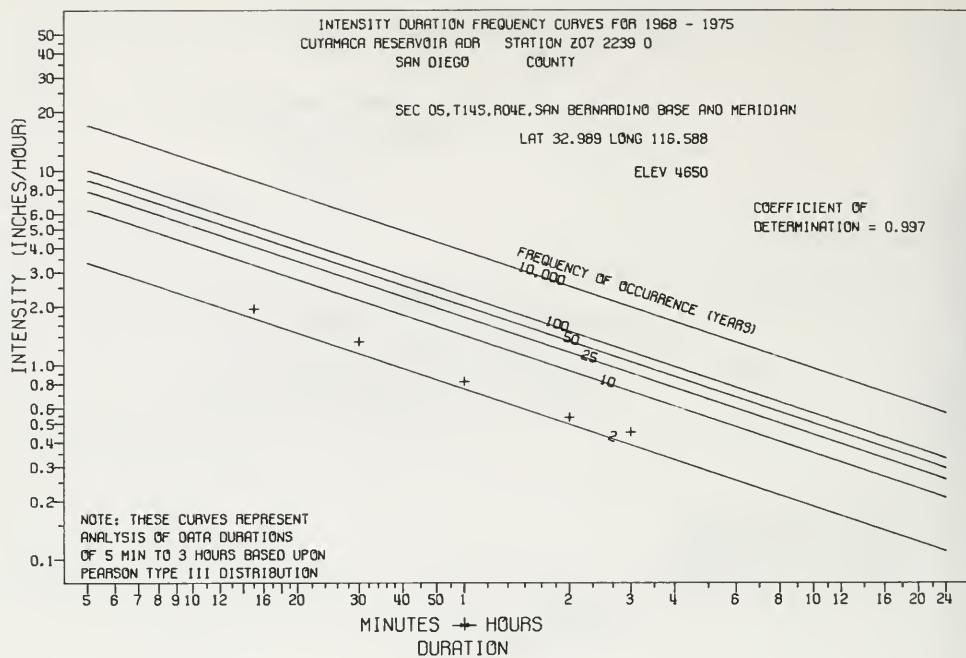
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1975
 POWAY CO RD STA STATION Z06 7110 10
 SAN DIEGO COUNTY

LAT 32.950 LONG 117.063

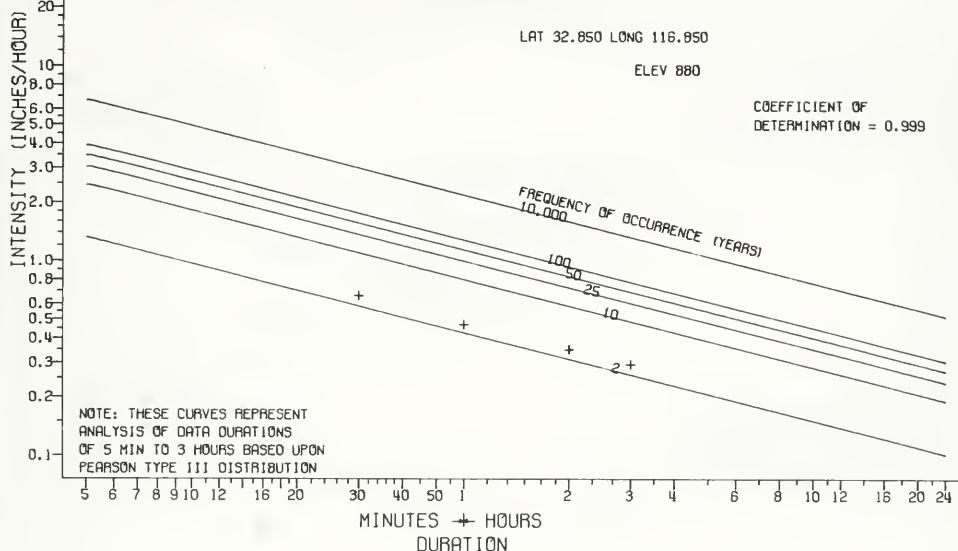
ELEV 440

COEFFICIENT OF DETERMINATION = 0.999

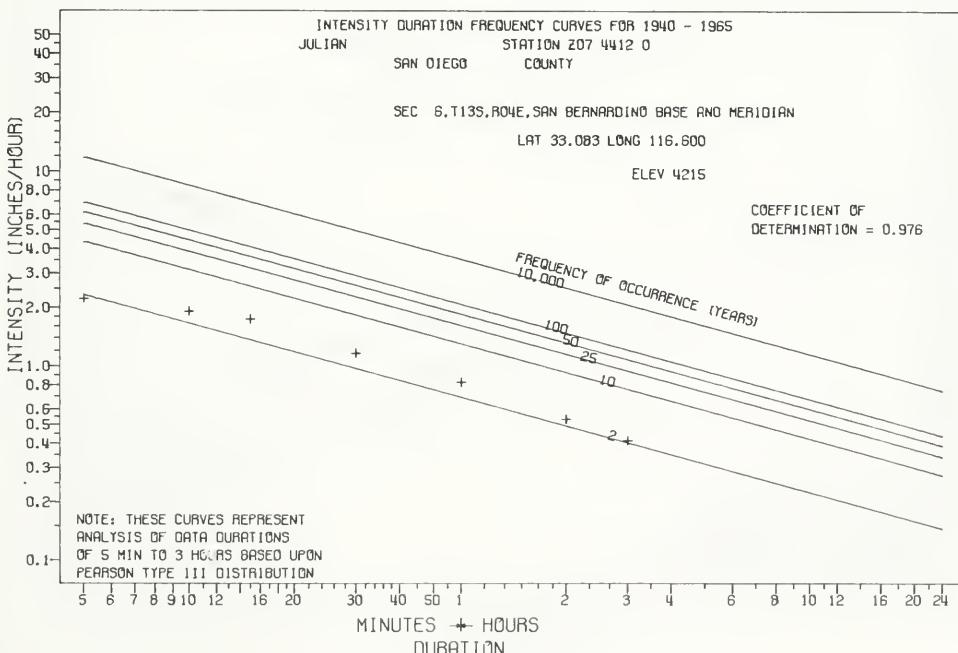


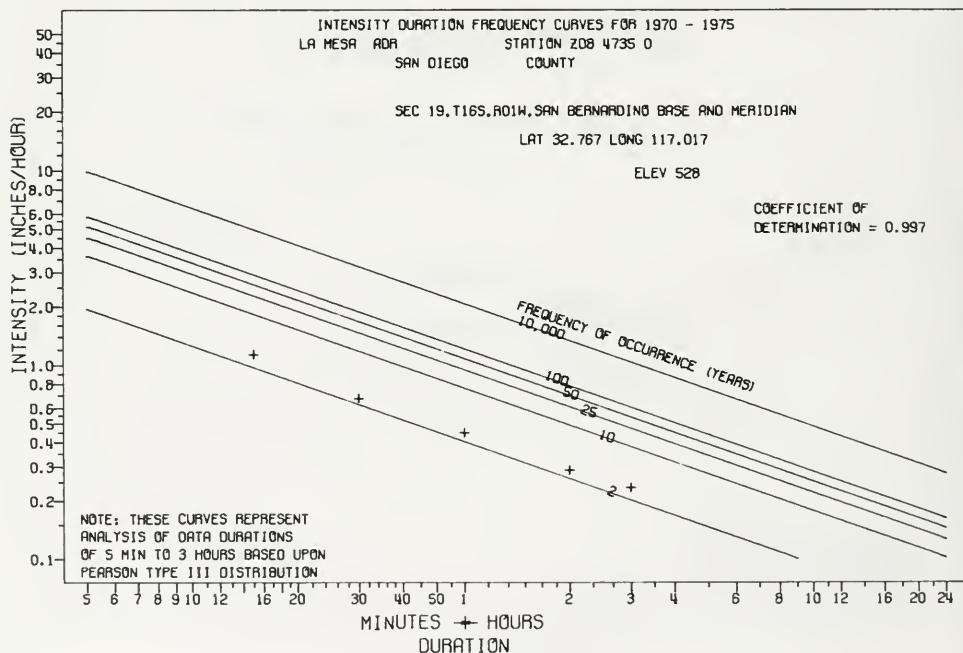
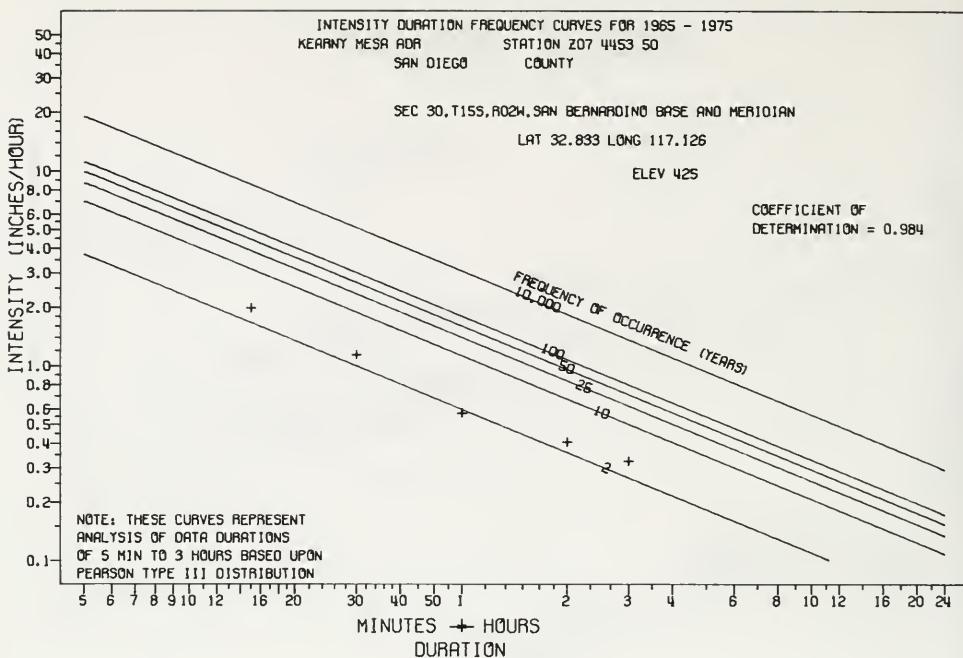


INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1975
 FLINN SPRINGS 542 STATION 207 3090 0
 SAN DIEGO COUNTY

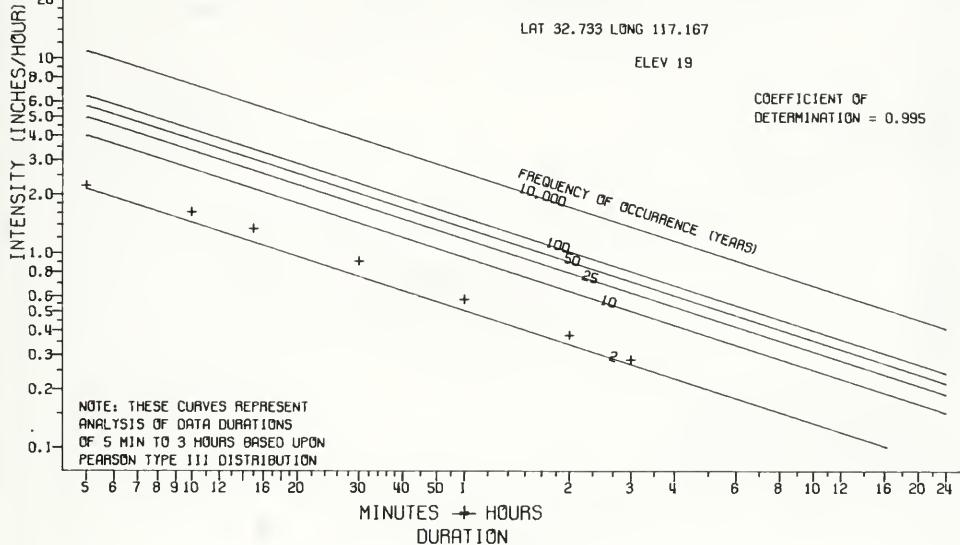


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1965
 JULIAN STATION 207 4412 0
 SAN DIEGO COUNTY

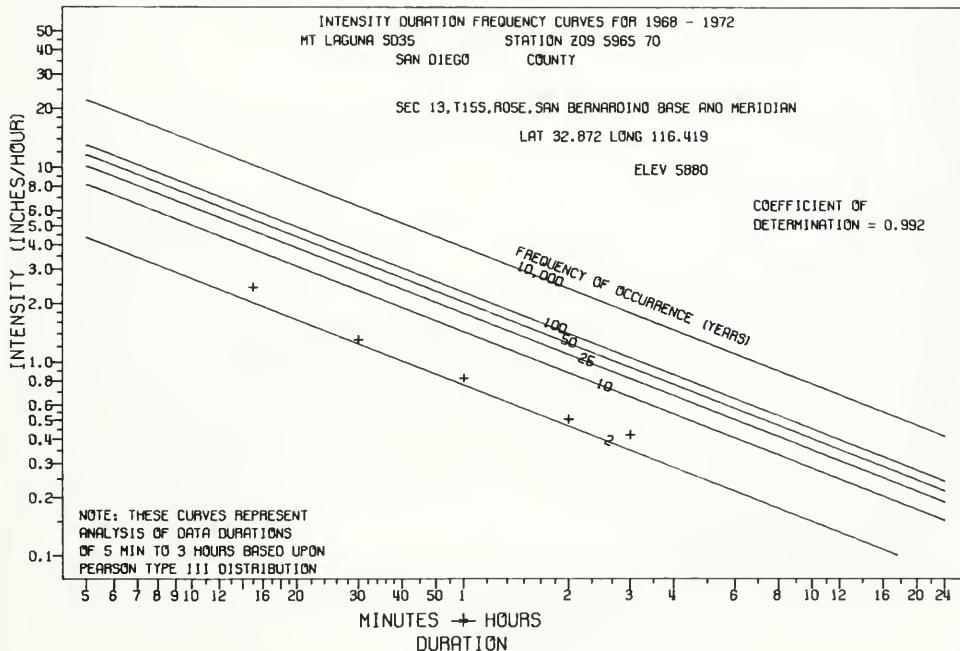


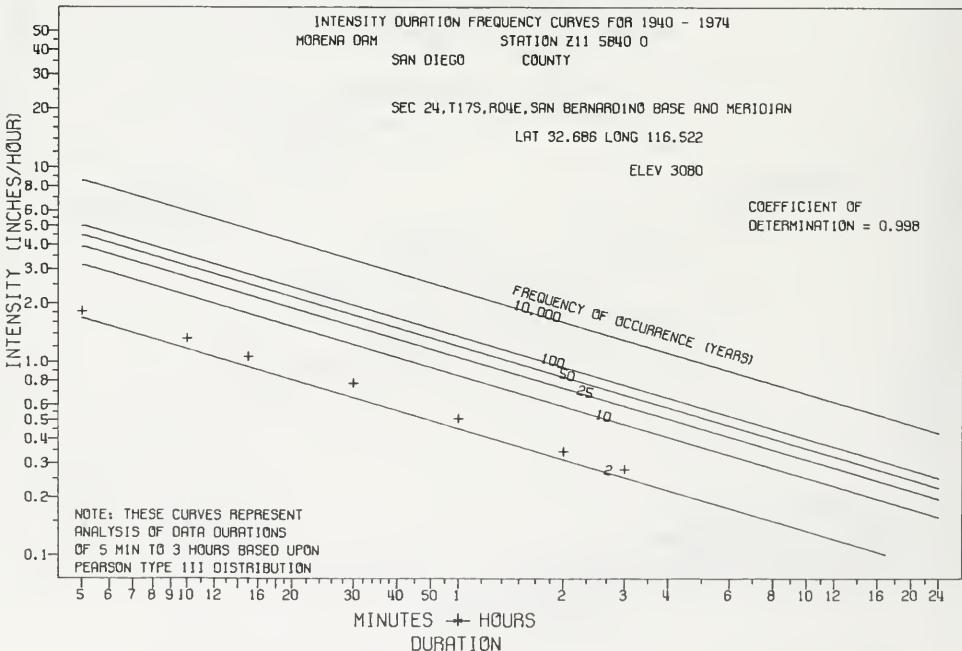
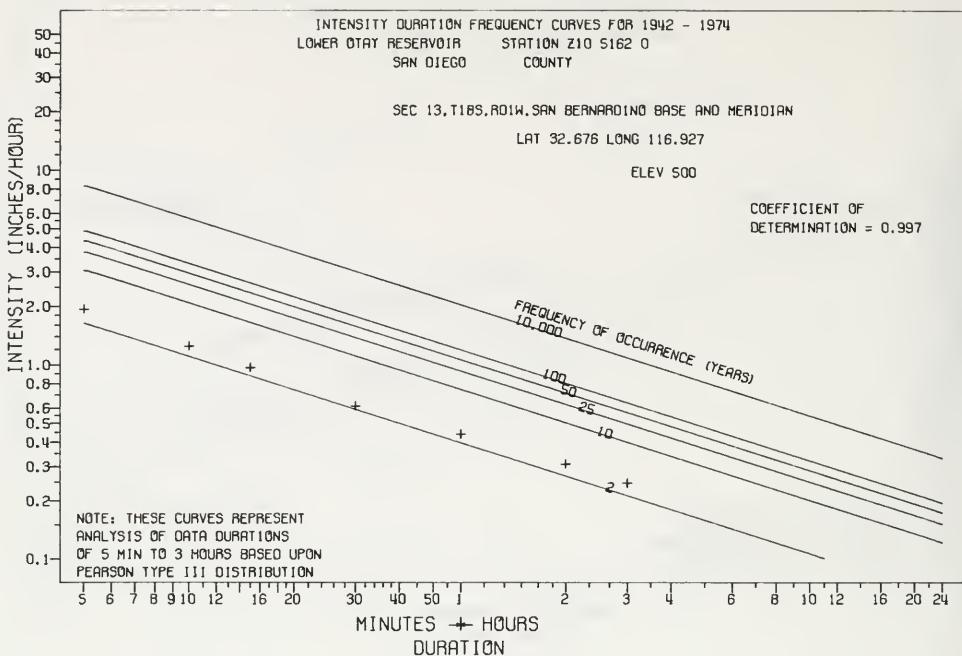


INTENSITY DURATION FREQUENCY CURVES FOR 1891 - 1975
 SAN DIEGO AP NWS STATION Z08 7740 0
 SAN DIEGO COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1968 - 1972
 MT LAGUNA SD35 STATION Z09 5965 70
 SAN DIEGO COUNTY





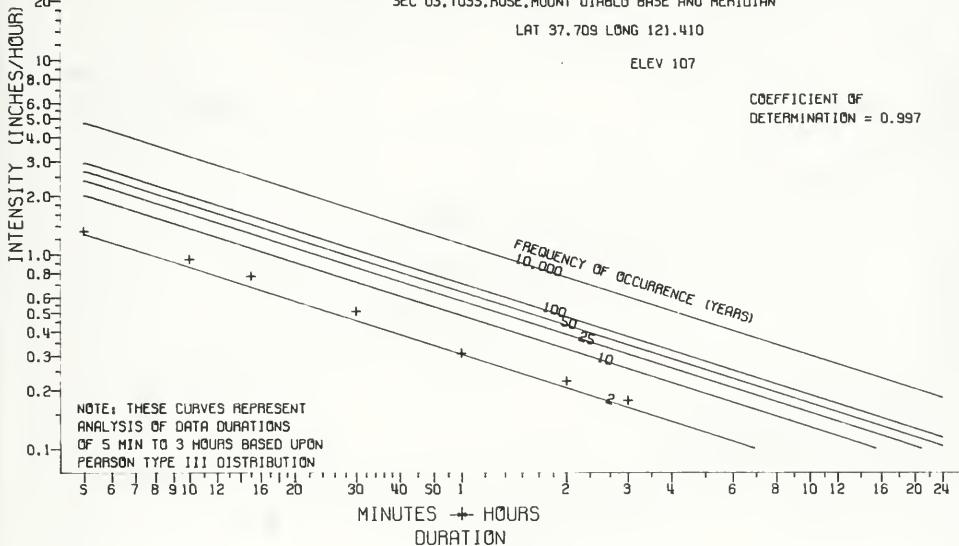
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 TRACY 2 SSE STATION B80 8997 0
 SAN JOAQUIN COUNTY

SEC 03, T03S, R04E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.709 LONG 121.410

ELEV 107

COEFFICIENT OF
 DETERMINATION = 0.997



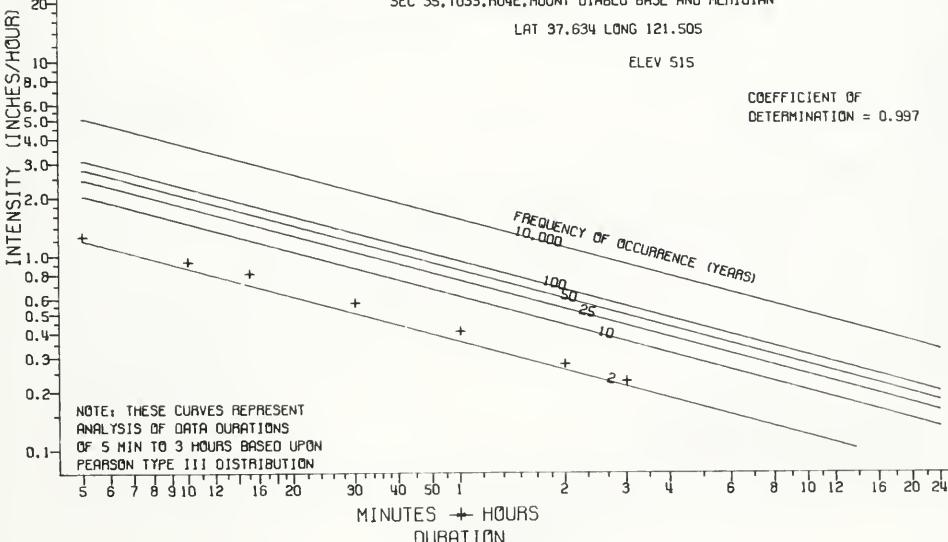
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 CASTLE ROCK RAD LAB STATION B80 1583 0
 SAN JOAQUIN COUNTY

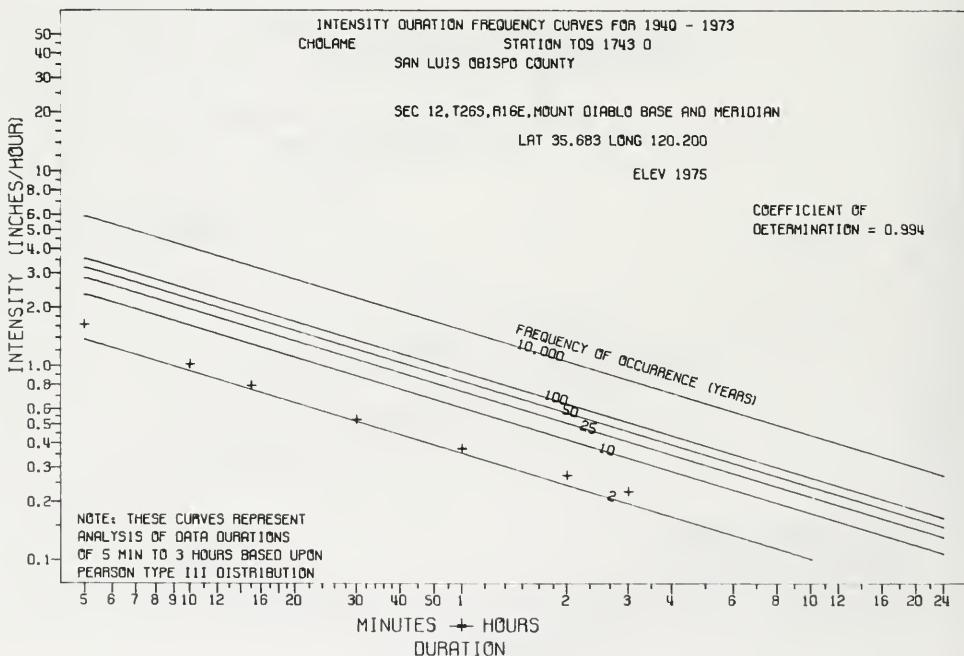
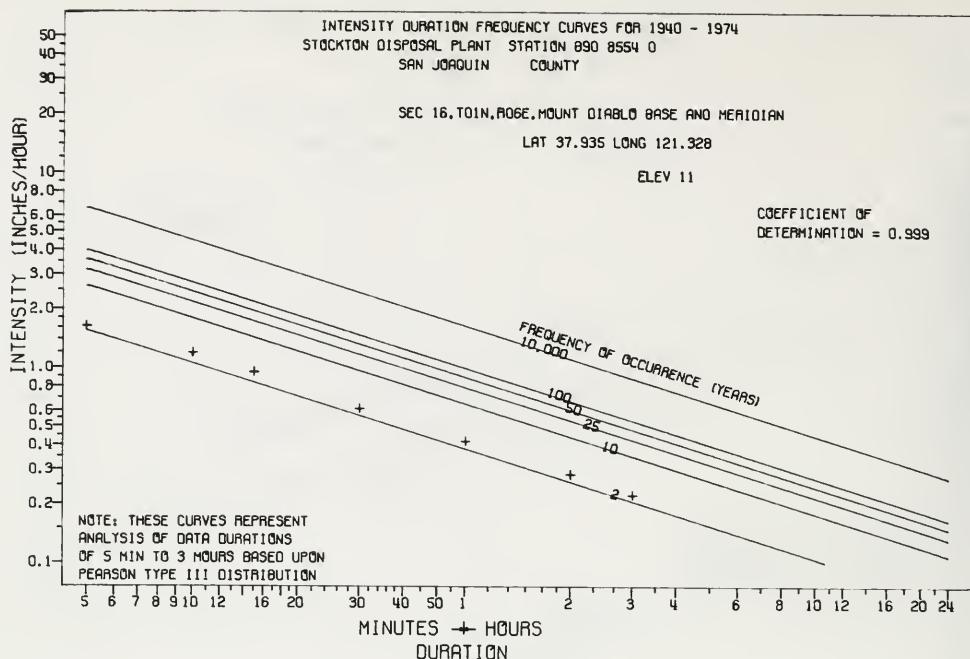
SEC 35, T03S, R04E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.634 LONG 121.505

ELEV 515

COEFFICIENT OF
 DETERMINATION = 0.997





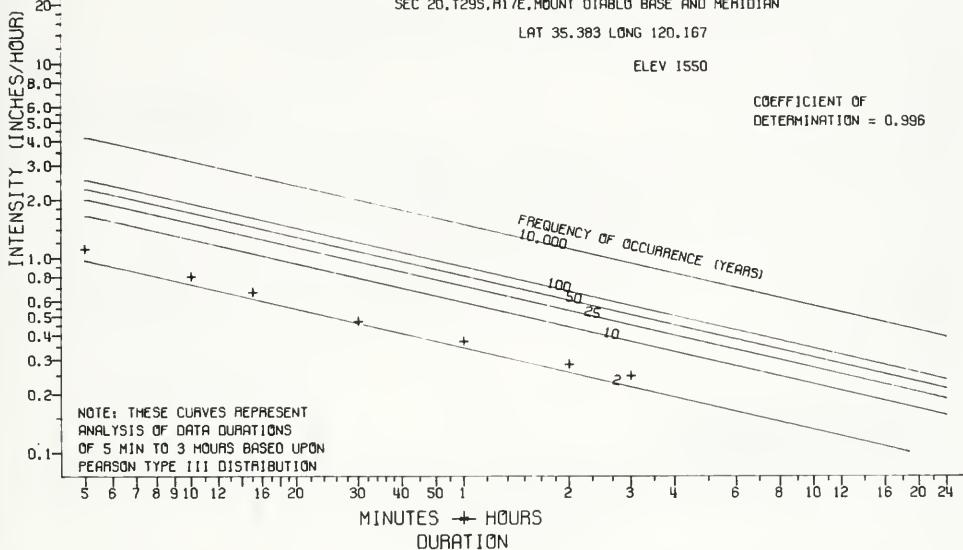
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 LA PANZA RANCH STATION T09 4767 0
 SAN LUIS OBISPO COUNTY

SEC 20, T29S, R17E, MOUNT DIABLO BASE AND MERIDIAN

LAT 35.383 LONG 120.167

ELEV 1550

COEFFICIENT OF
 DETERMINATION = 0.996



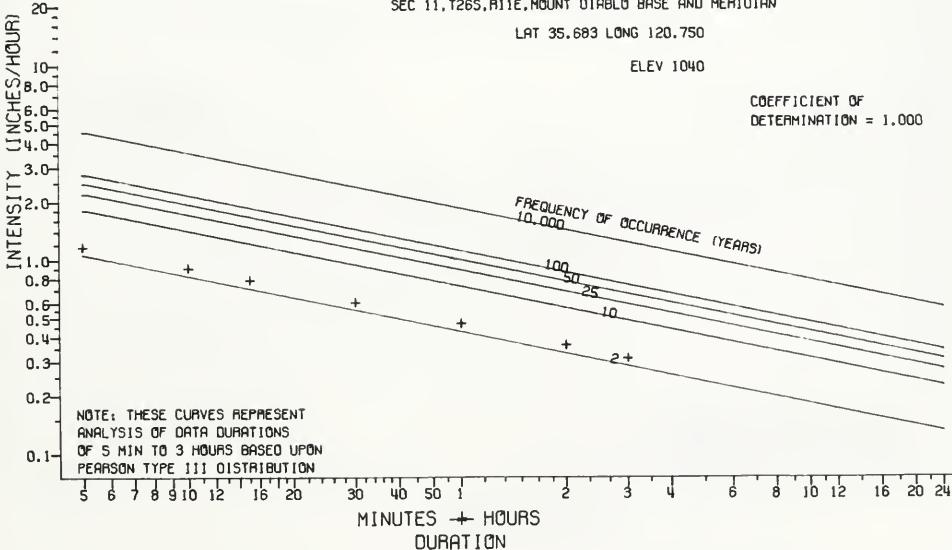
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 PASO ROBLES STATION T09 6736 0
 SAN LUIS OBISPO COUNTY

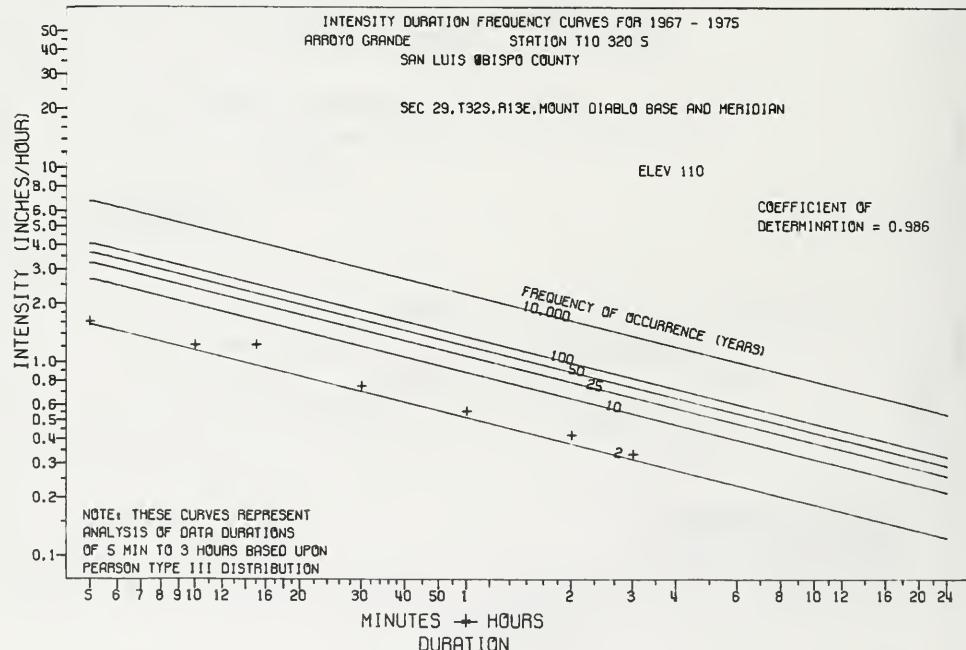
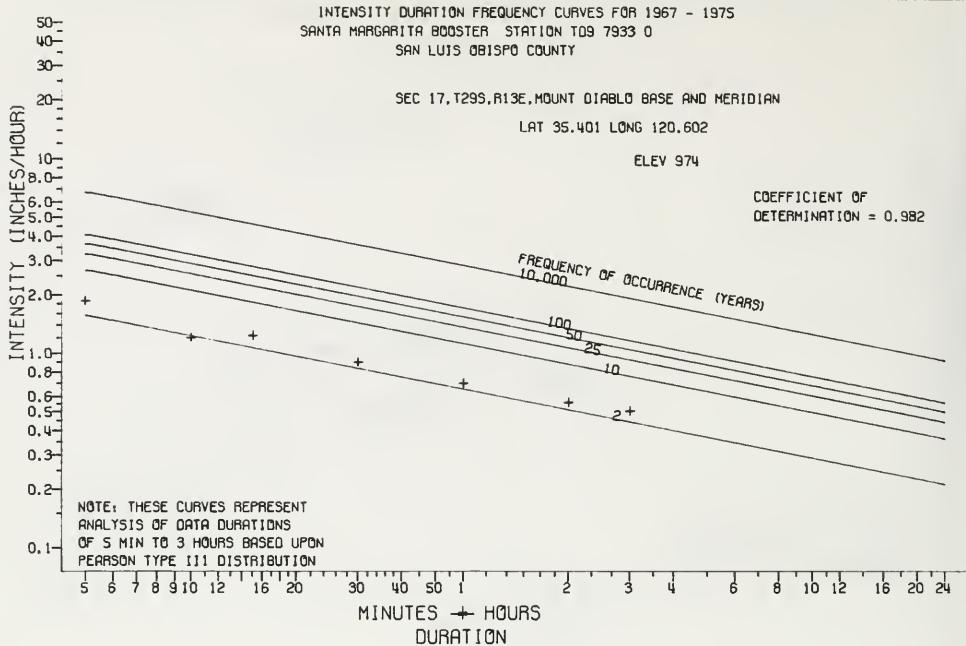
SEC 11, T26S, R11E, MOUNT DIABLO BASE AND MERIDIAN

LAT 35.683 LONG 120.750

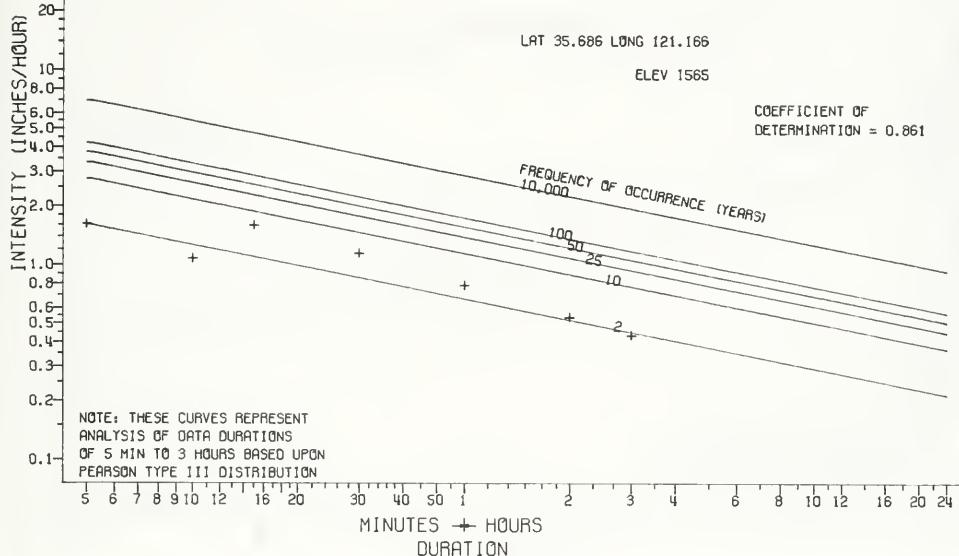
ELEV 1040

COEFFICIENT OF
 DETERMINATION = 1.000

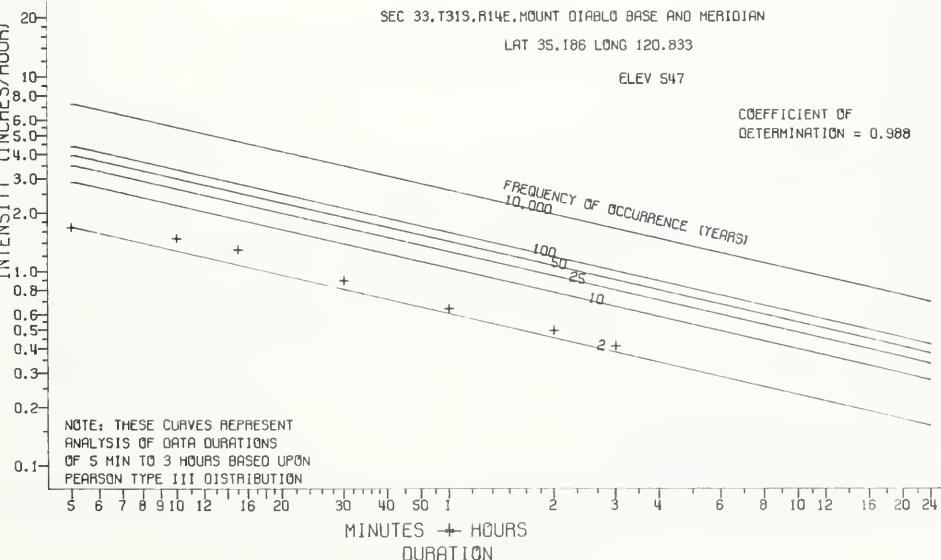


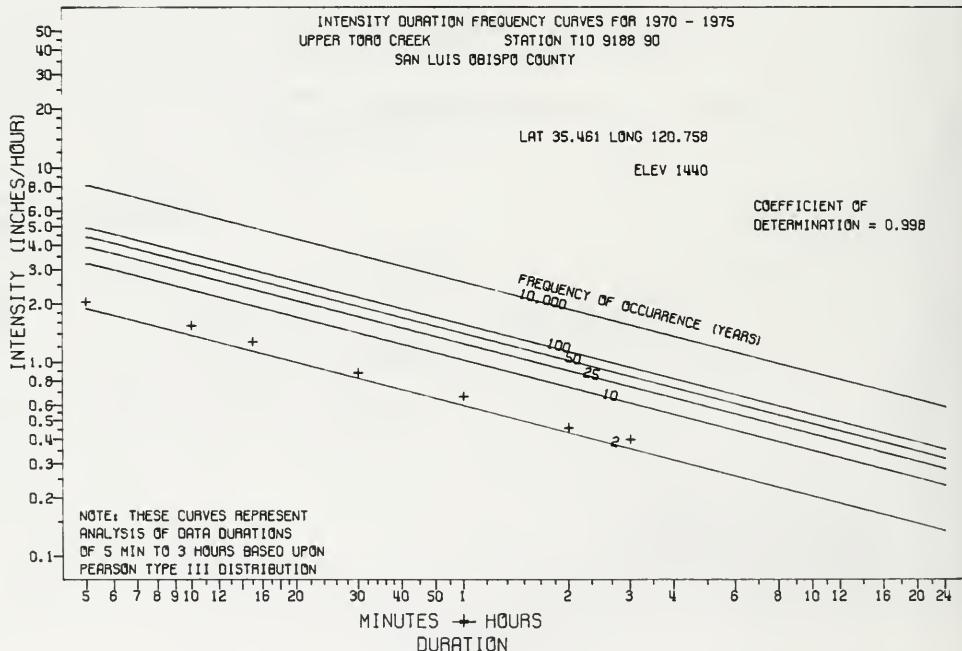
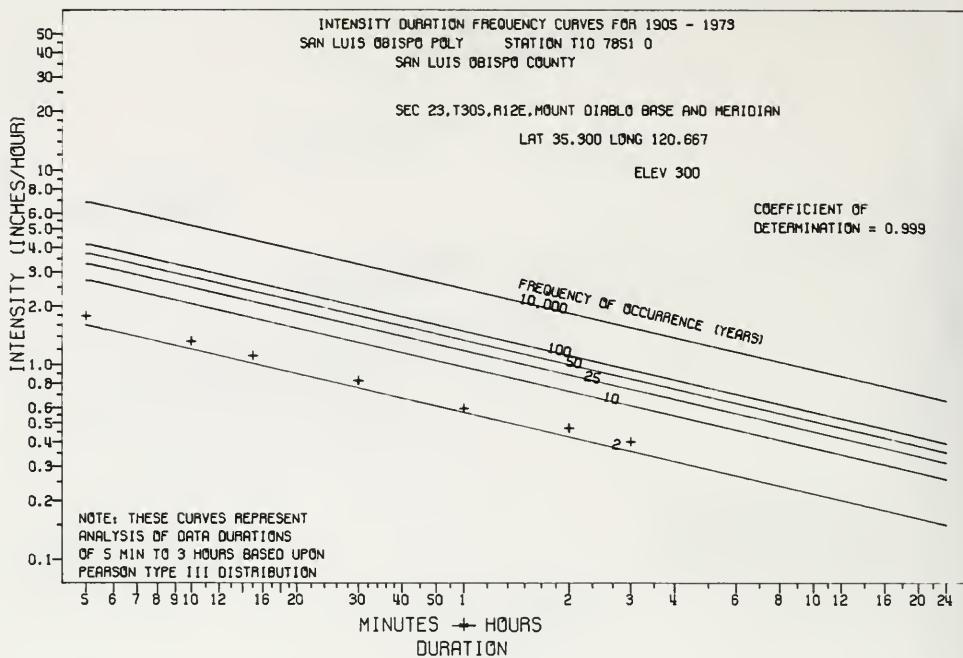


INTENSITY DURATION FREQUENCY CURVES FOR 1967 - 1975
 MEAST CASTLE STATION T10 R888 2
 SAN LUIS OBISPO COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1967 - 1975
 LOPEZ DAM STATION T10 S098 50
 SAN LUIS OBISPO COUNTY





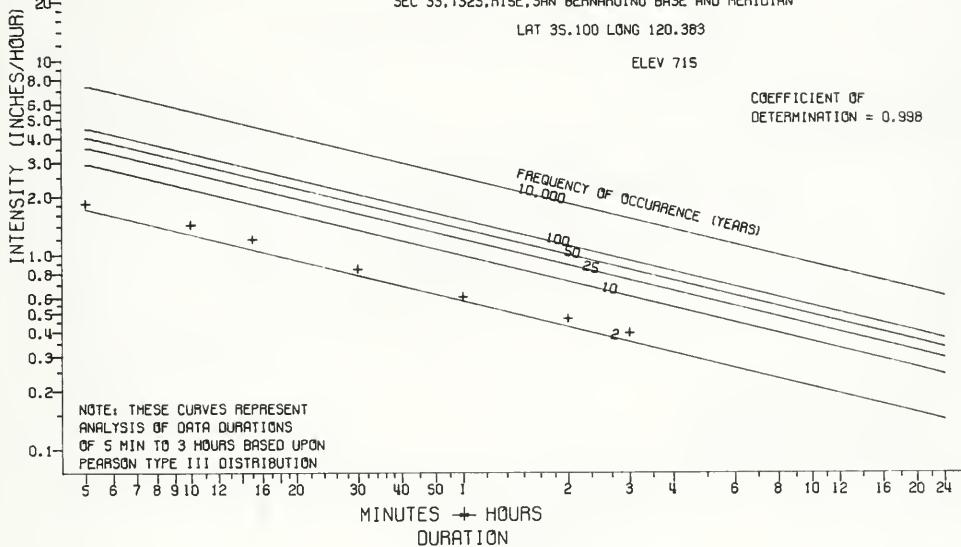
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 HUASNA STATION T12 R144 0
 SAN LUIS OBISPO COUNTY

SEC 33, T32S, R15E, SAN BERNARDINO BASE AND MERIDIAN

LAT 35.100 LONG 120.383

ELEV 715

COEFFICIENT OF
 DETERMINATION = 0.998

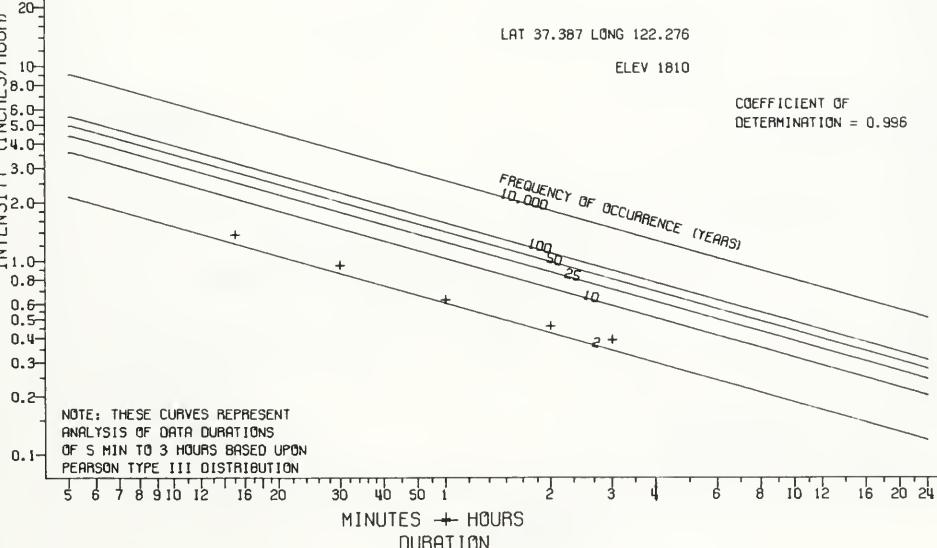


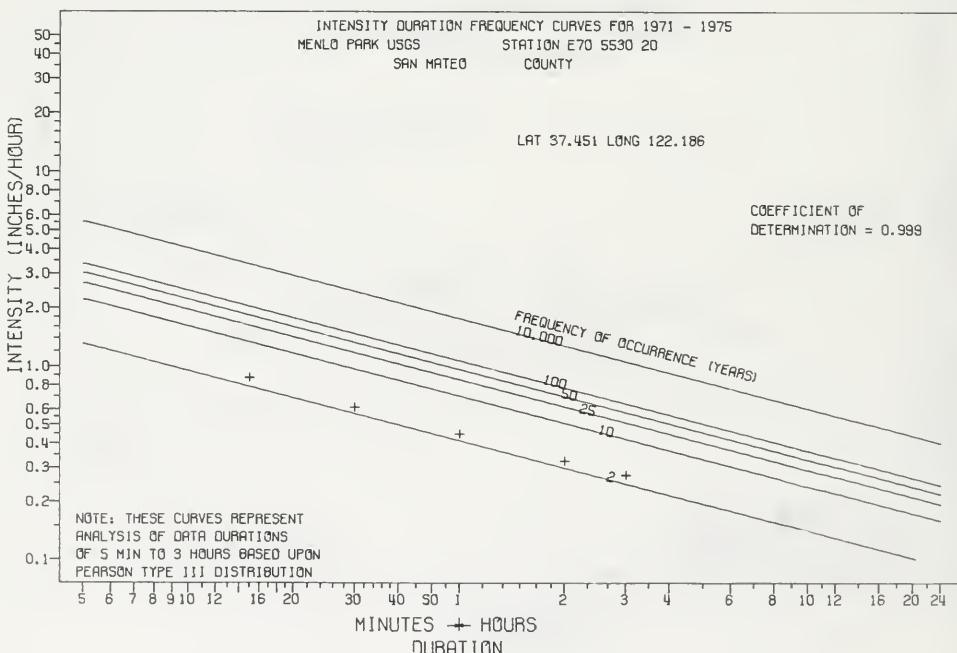
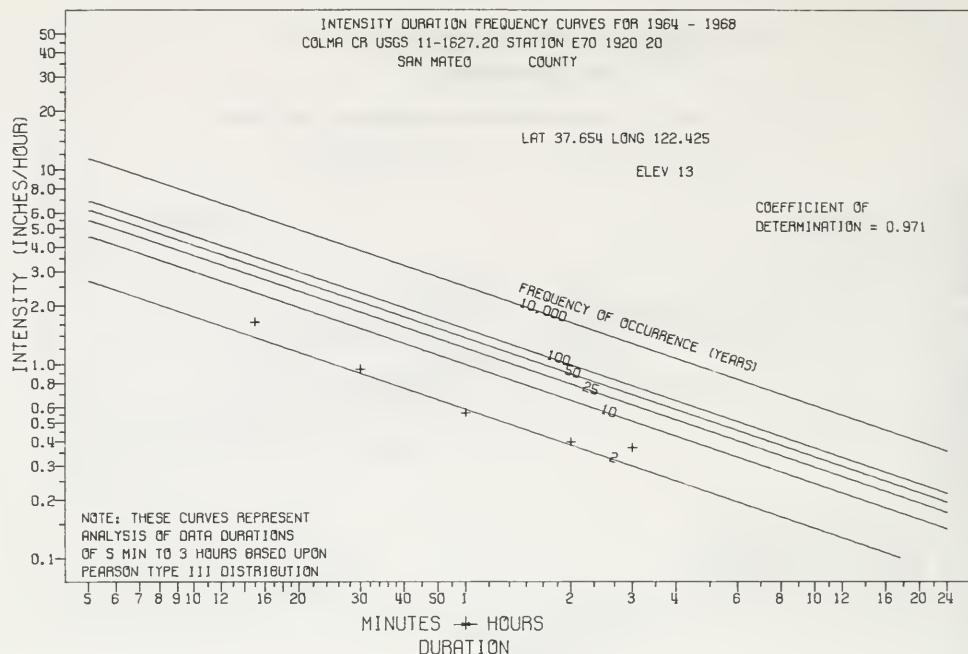
INTENSITY DURATION FREQUENCY CURVES FOR 1967 - 1975
 SKYLOMA H M S STATION E60 8274 25
 SAN MATEO COUNTY

LAT 37.387 LONG 122.276

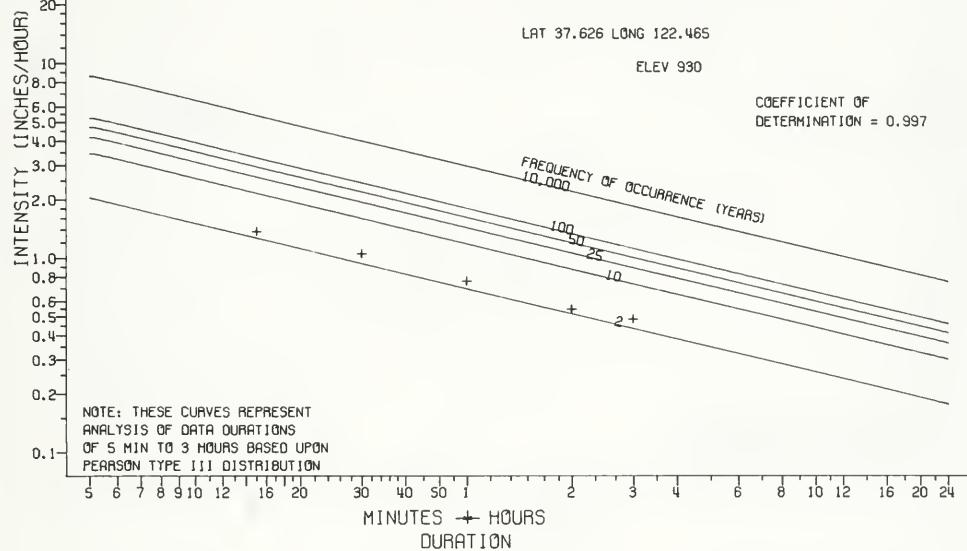
ELEV 1810

COEFFICIENT OF
 DETERMINATION = 0.996

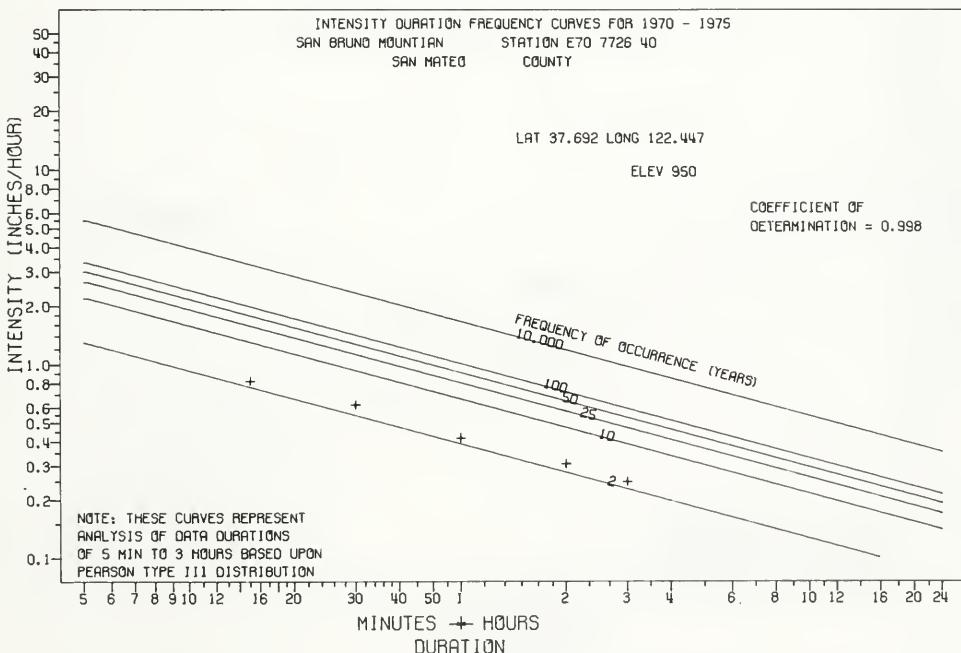


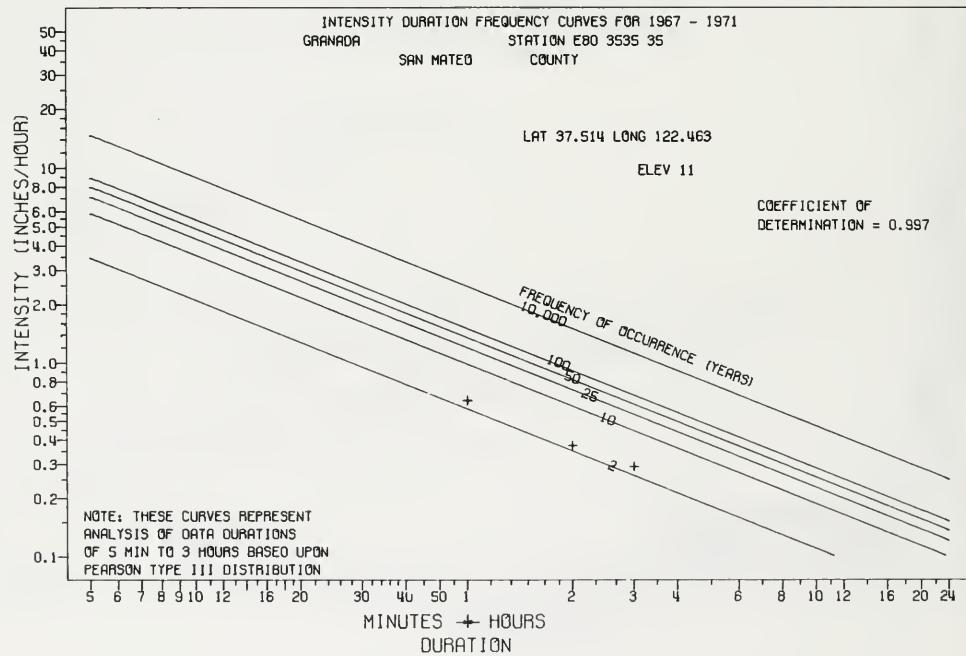
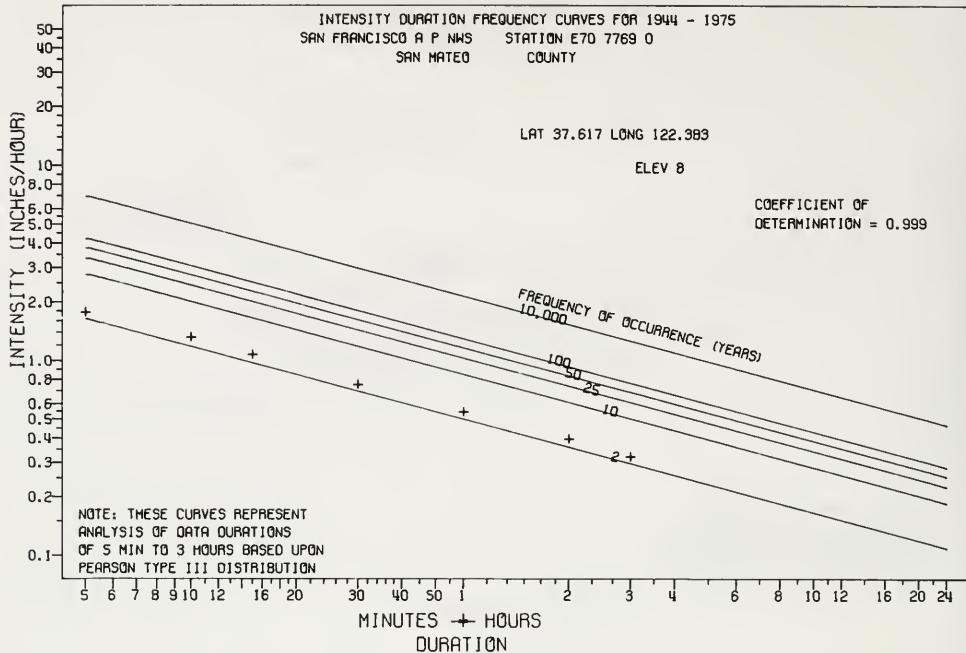


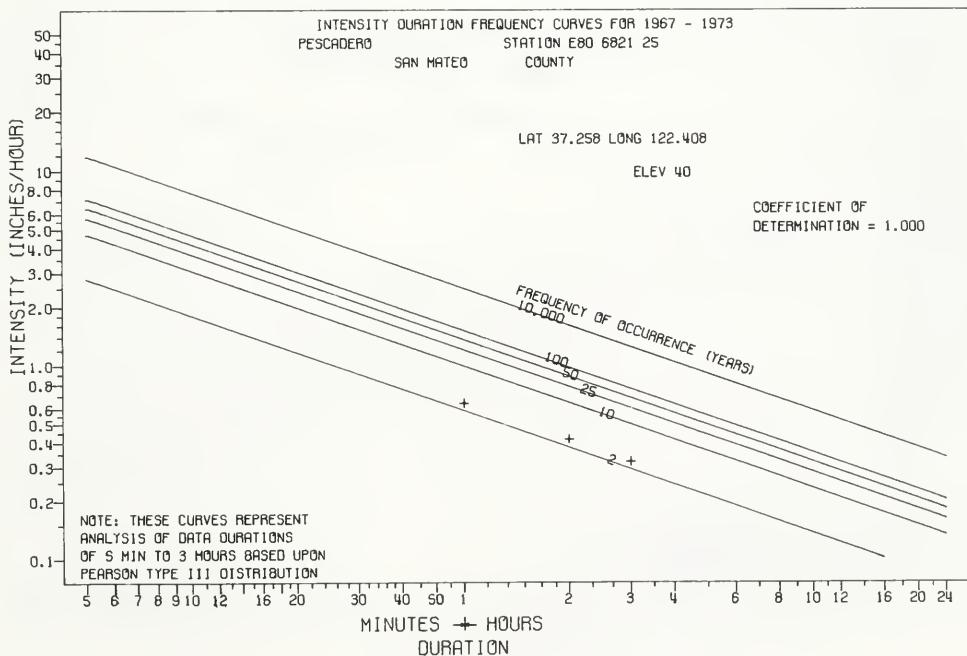
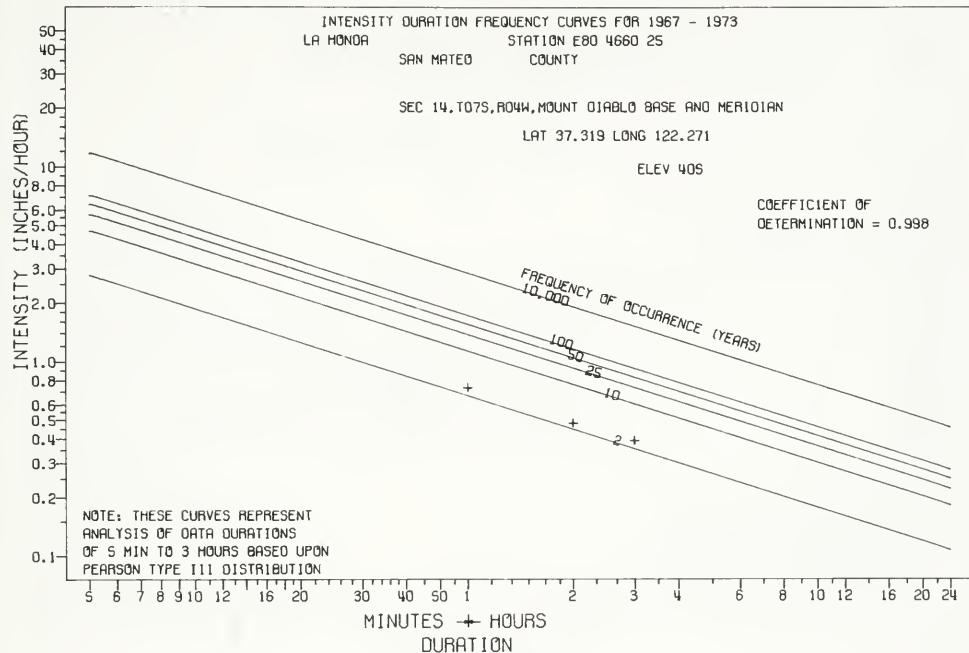
INTENSITY DURATION FREQUENCY CURVES FOR 1969 - 1975
 PACIFICA USCG STATION E70 6586 20
 SAN MATEO COUNTY

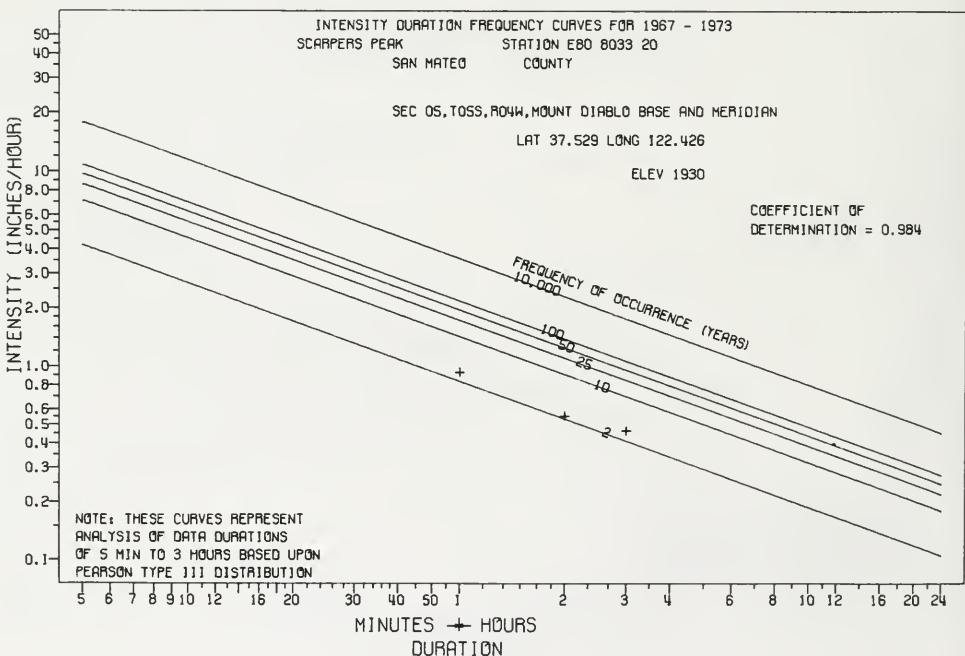
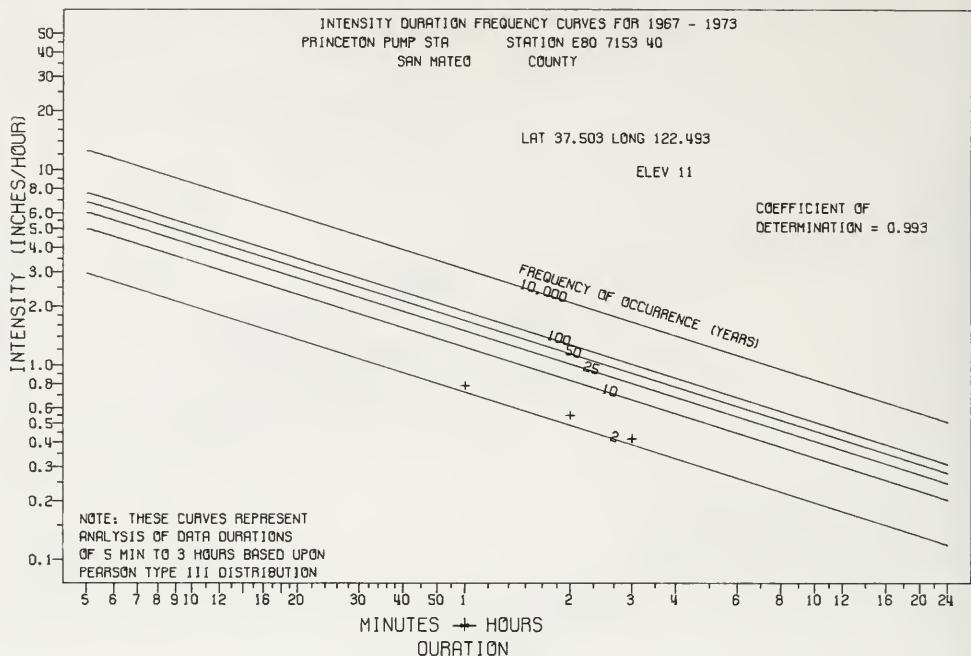


INTENSITY DURATION FREQUENCY CURVES FOR 1970 - 1975
 SAN BRUNO MOUNTAIN STATION E70 7726 40
 SAN MATEO COUNTY









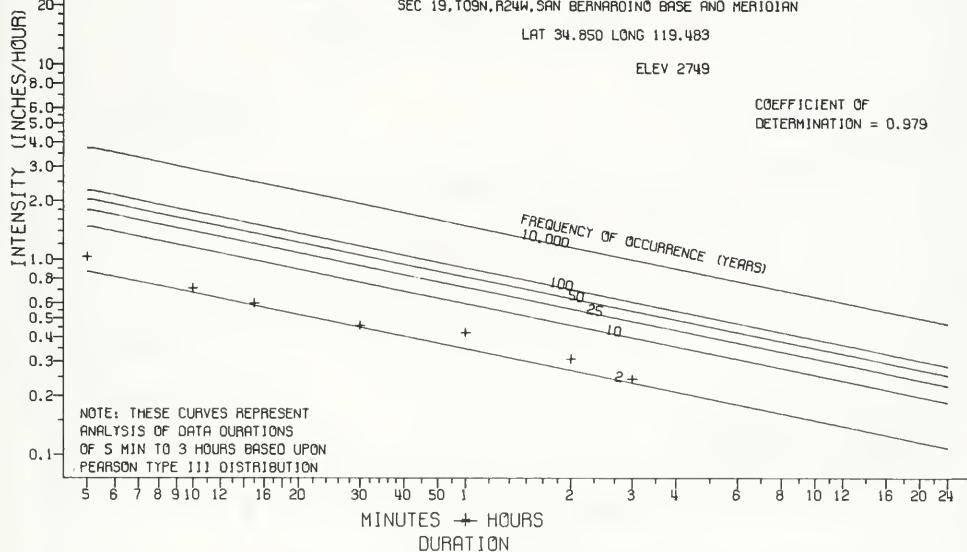
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1969
 CUYAMA R S STATION T12 2249 0
 SANTA BARBARA COUNTY

SEC 19, T09N, R24W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.850 LONG 119.483

ELEV 2749

COEFFICIENT OF
 DETERMINATION = 0.979

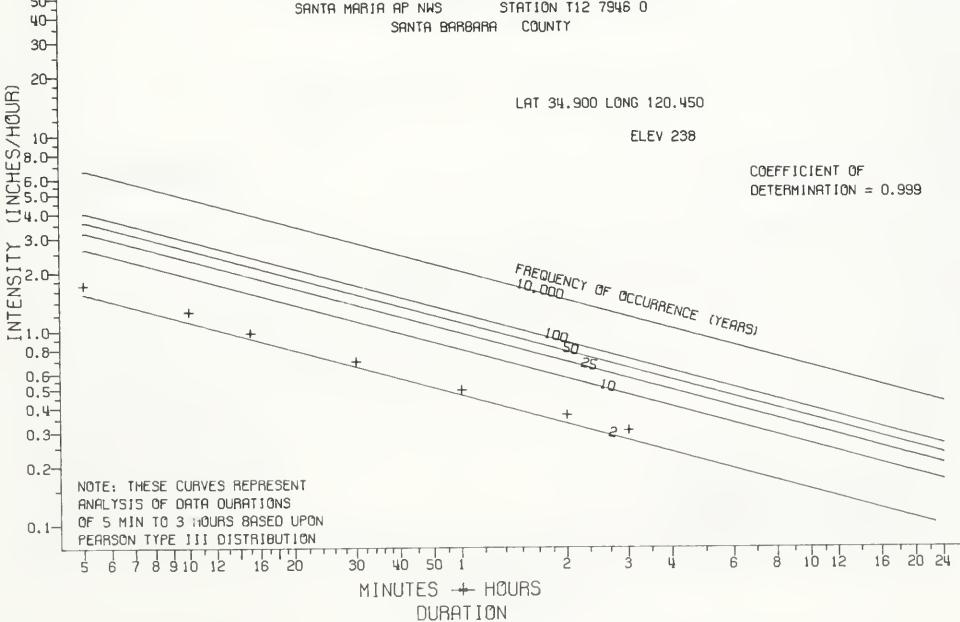


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1975
 SANTA MARIA RP NWS STATION T12 7946 0
 SANTA BARBARA COUNTY

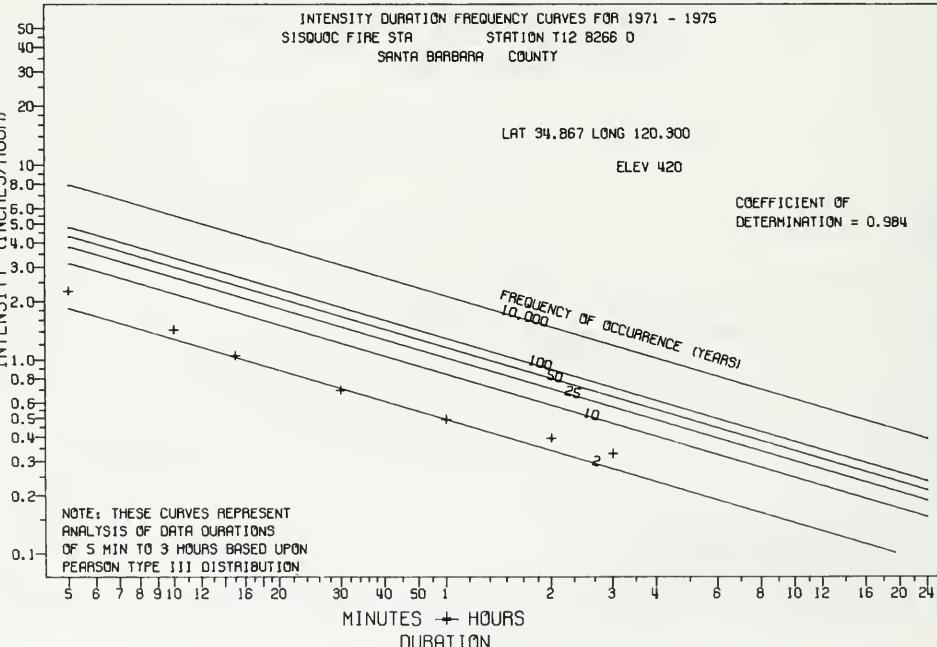
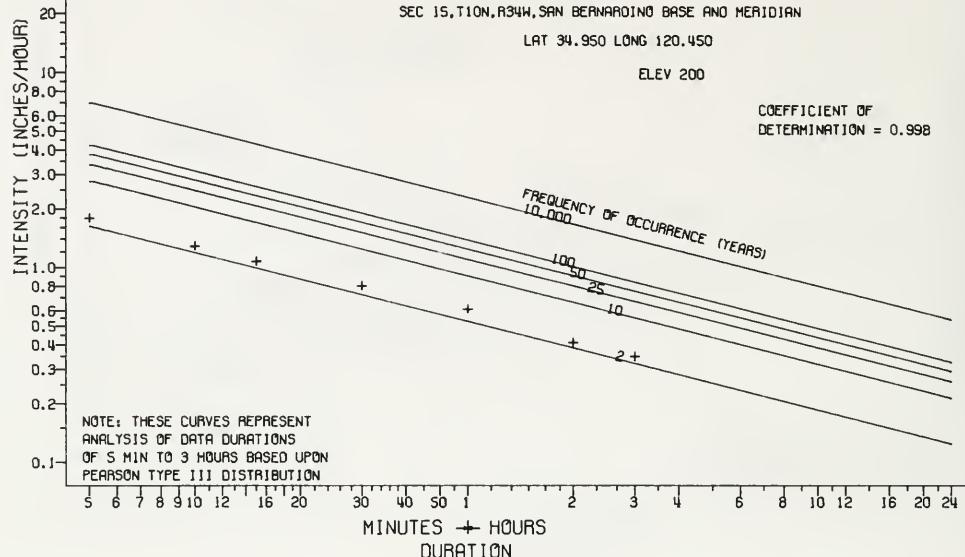
LAT 34.900 LONG 120.450

ELEV 238

COEFFICIENT OF
 DETERMINATION = 0.999



INTENSITY DURATION FREQUENCY CURVES FOR 1966 - 1975
 SANTA MARIA ROAD YARD STATION T12 7946 20
 SANTA BARBARA COUNTY



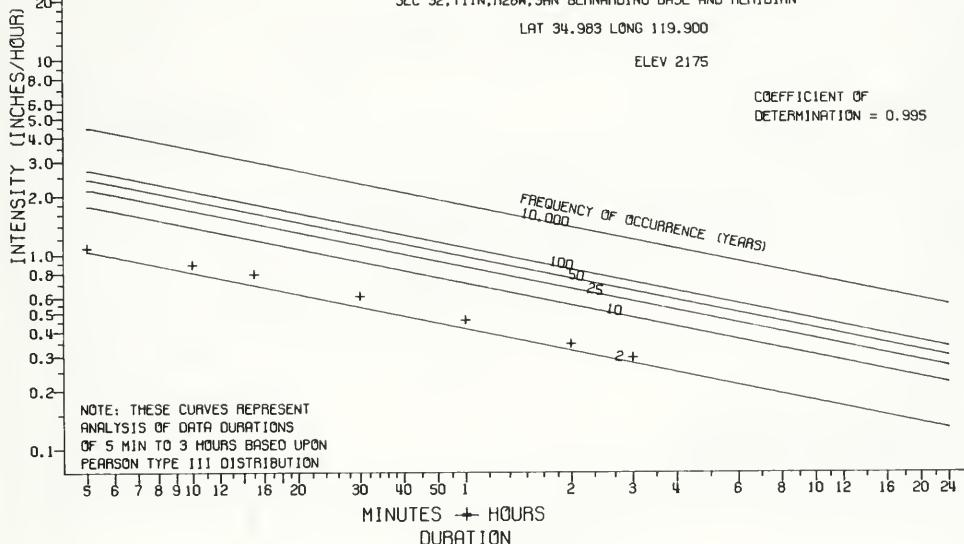
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1971
WASIOJA FORBES RANCH STATION T12 9457 0
SANTA BARBARA COUNTY

SEC 32, T11N, R28W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.983 LONG 119.900

ELEV 2175

COEFFICIENT OF
DETERMINATION = 0.995

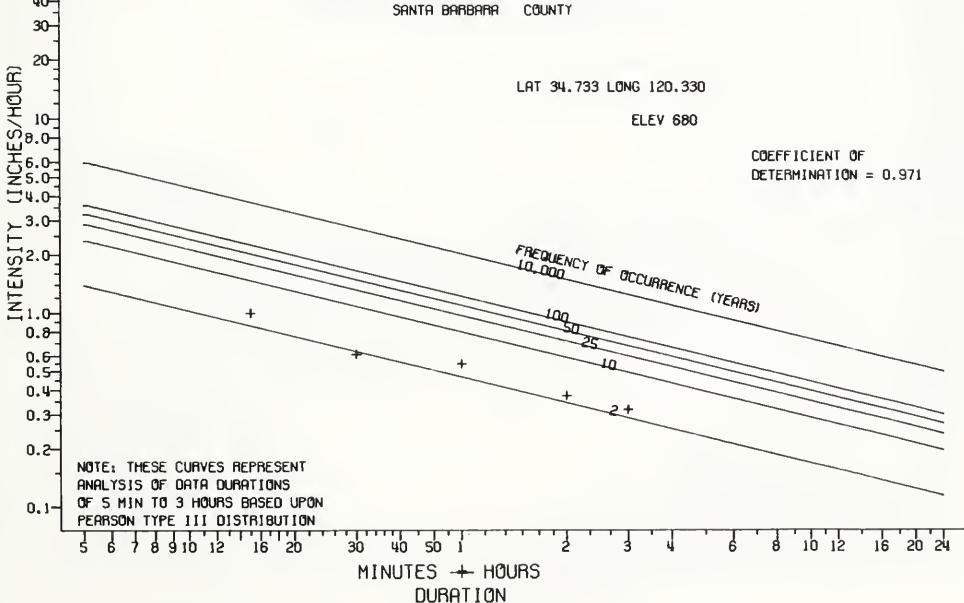


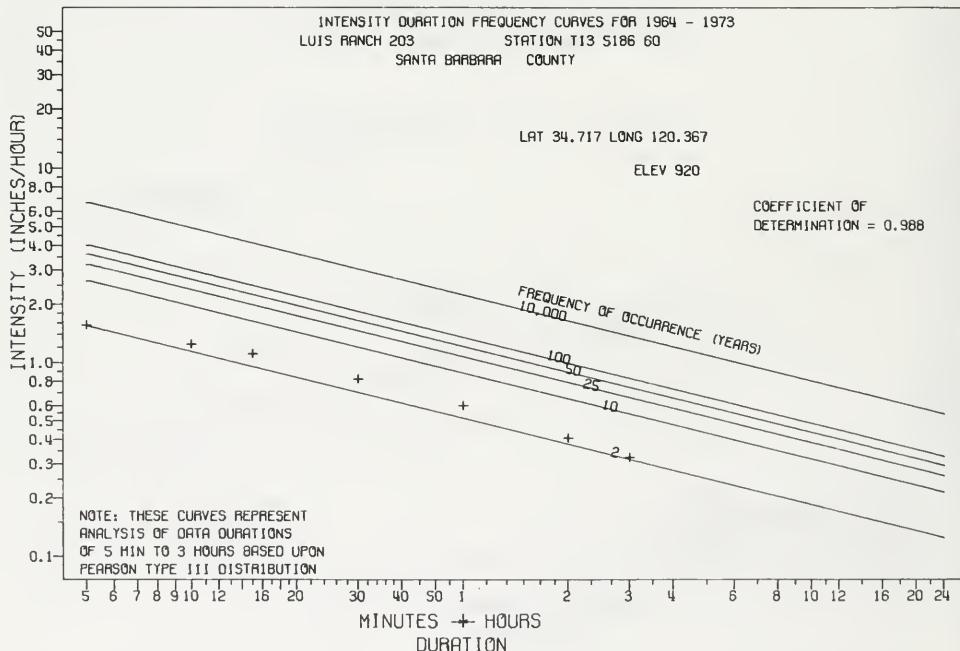
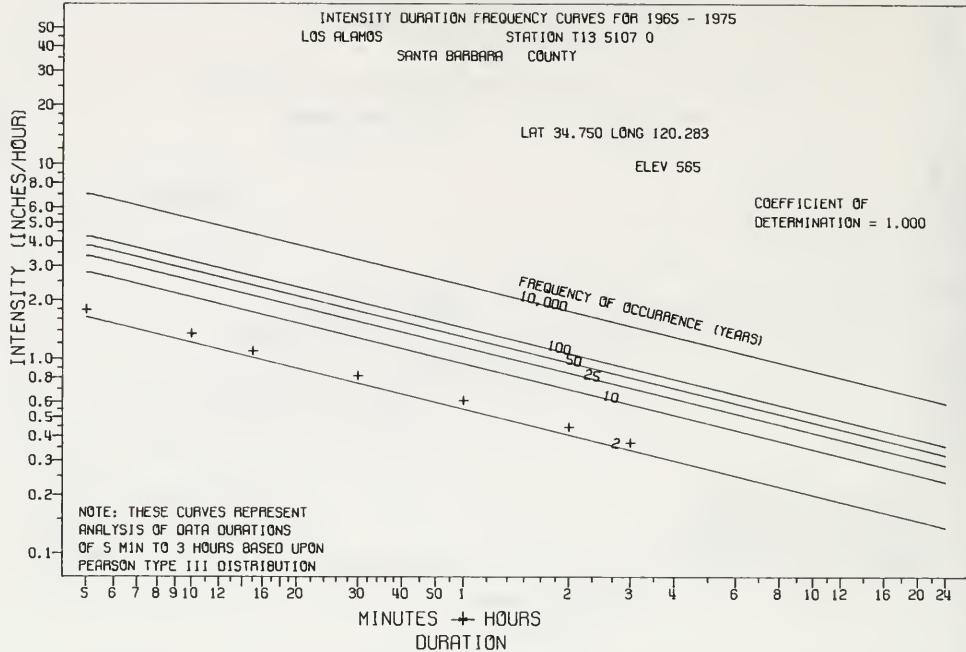
INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
CONFAGLIA RANCH 202 STATION T13 1970 60
SANTA BARBARA COUNTY

LAT 34.733 LONG 120.330

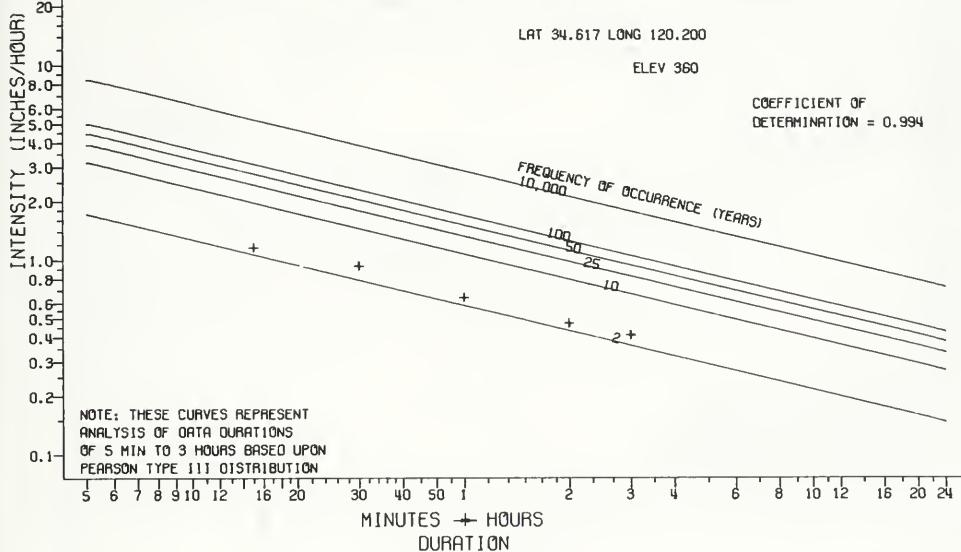
ELEV 680

COEFFICIENT OF
DETERMINATION = 0.971





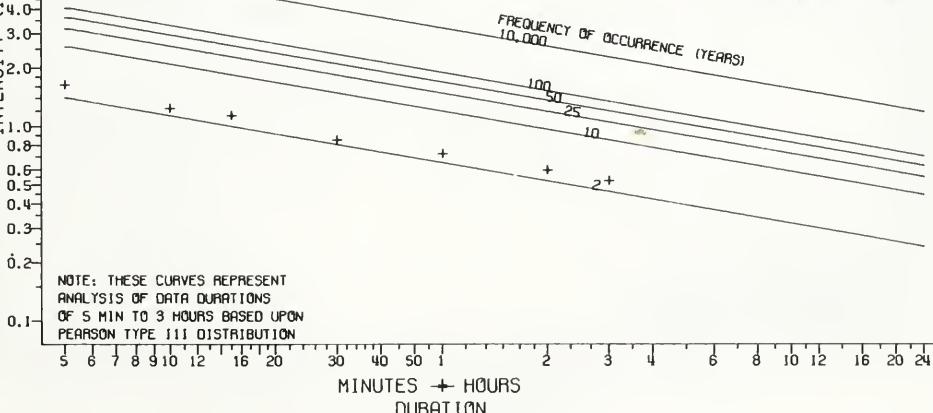
INTENSITY DURATION FREQUENCY CURVES FOR 1966 - 1975
 BUELLTON F S STATION T14 1167 40
 SANTA BARBARA COUNTY

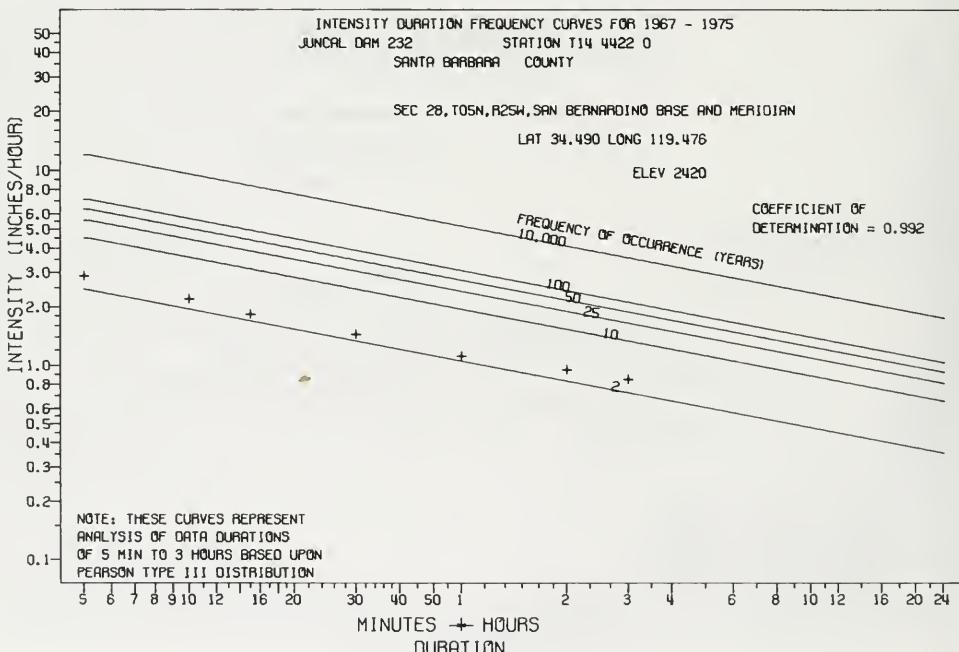
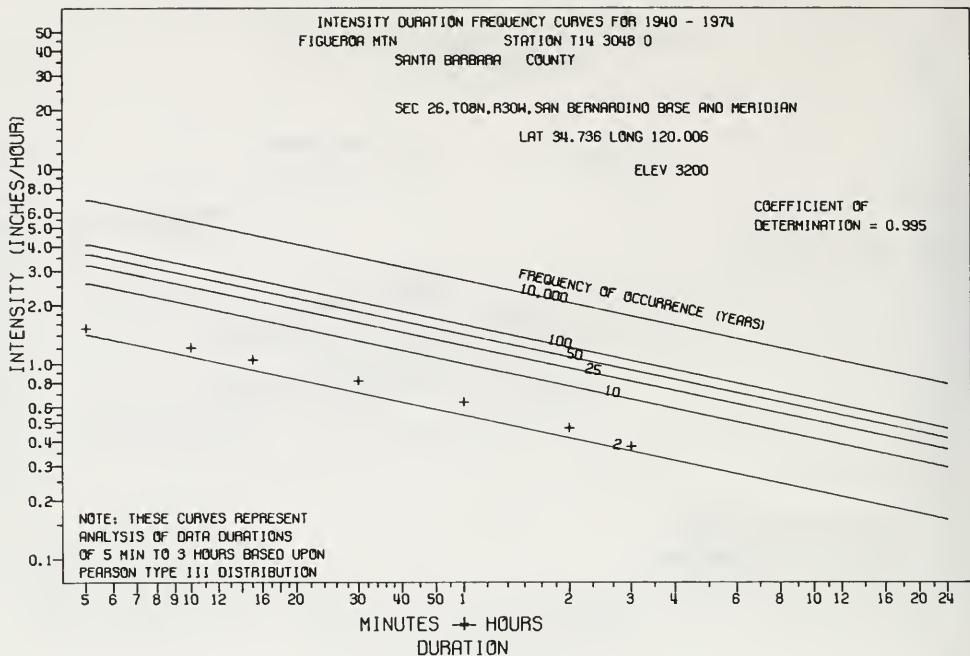


INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 CACHUMA DAM STATION T14 1253 0
 SANTA BARBARA COUNTY

SEC 29, T06N, R29W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.583 LONG 119.983
 ELEV 780

COEFFICIENT OF DETERMINATION = 0.994



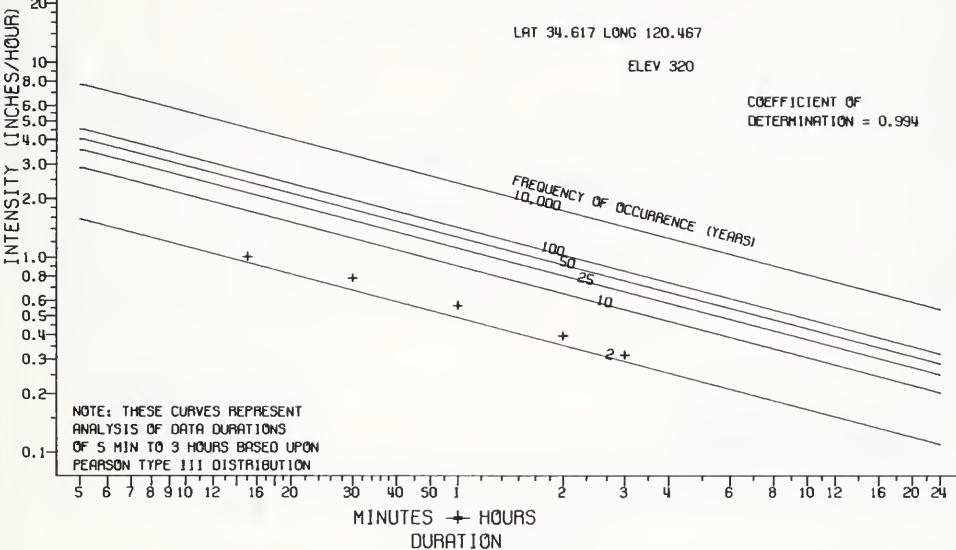


INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1975
 LOMPOC 4 NE STATION T14 S124 60
 SANTA BARBARA COUNTY

LAT 34.617 LONG 120.467

ELEV 320

COEFFICIENT OF
 DETERMINATION = 0.994

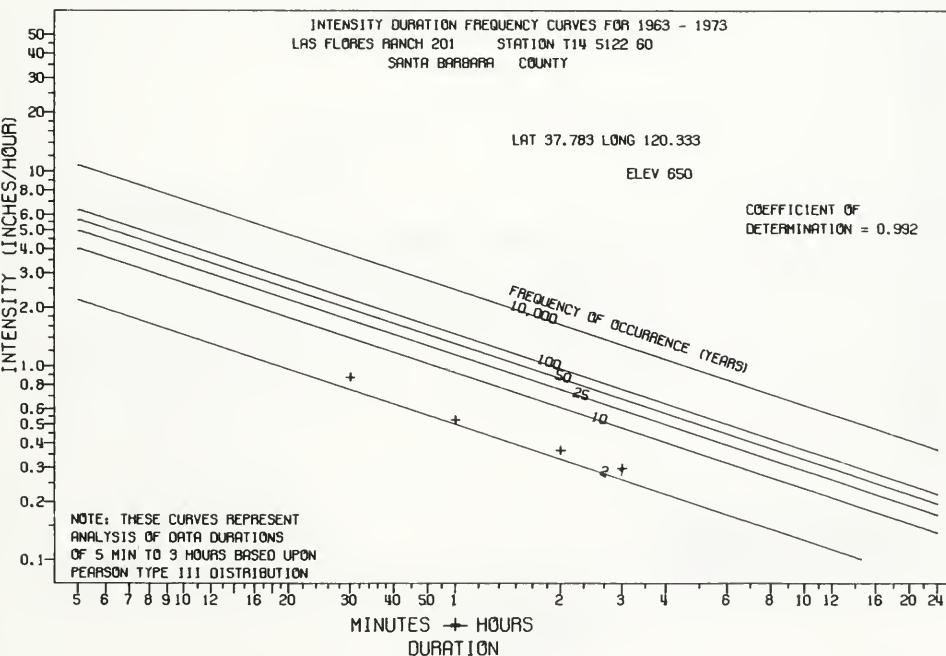


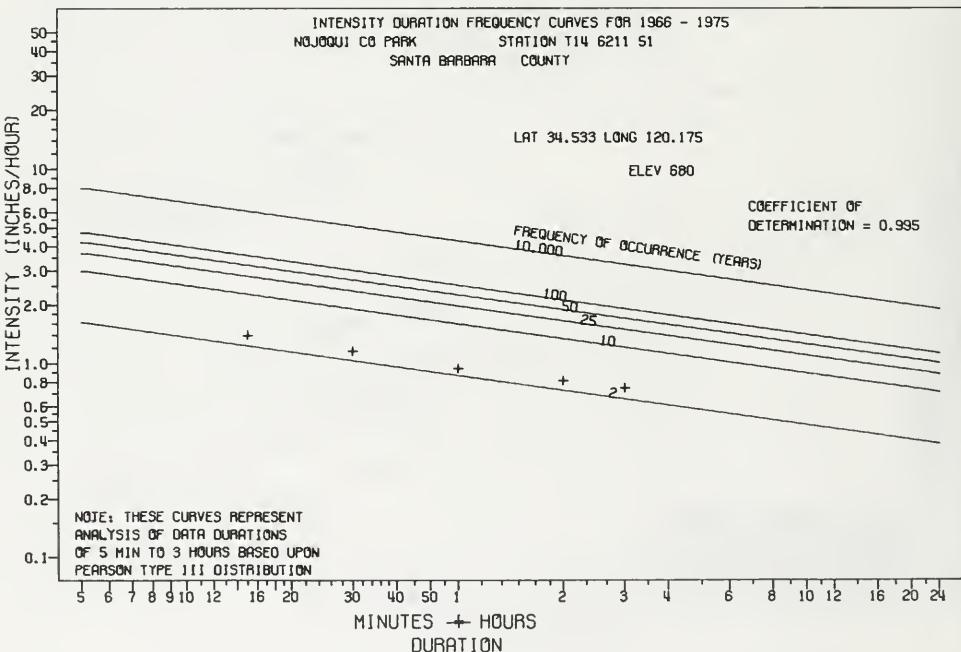
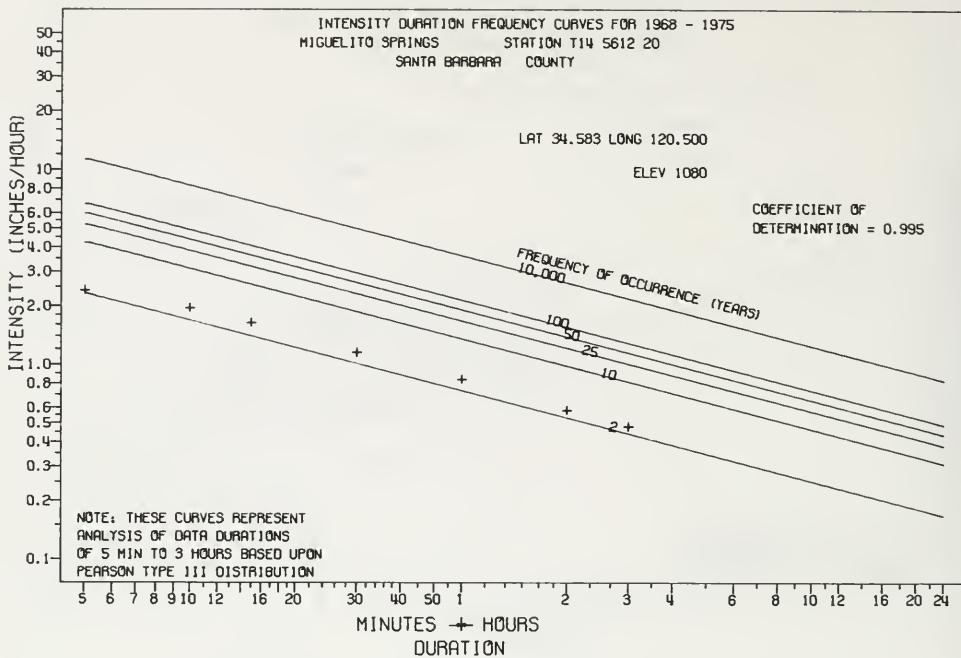
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1973
 LAS FLORES RANCH 201 STATION T14 S122 60
 SANTA BARBARA COUNTY

LAT 37.783 LONG 120.333

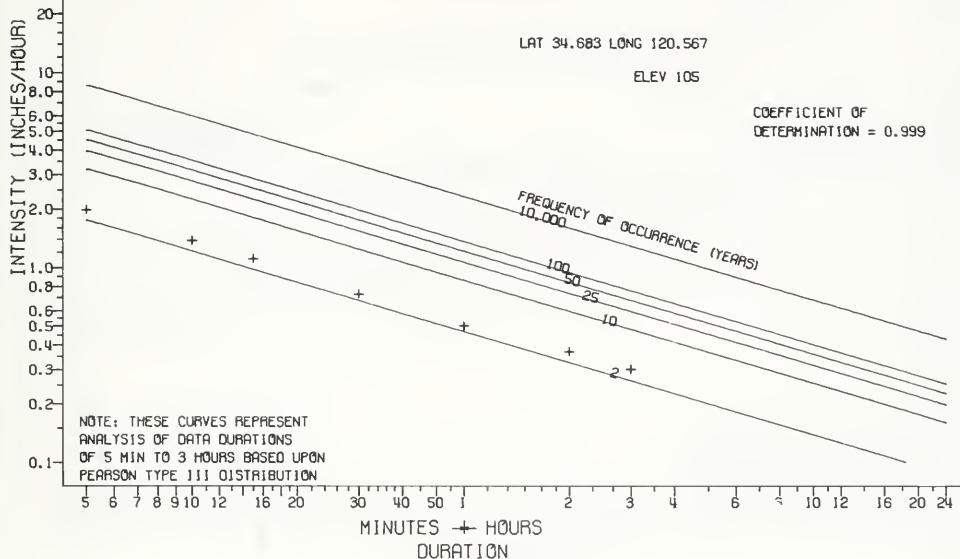
ELEV 650

COEFFICIENT OF
 DETERMINATION = 0.992

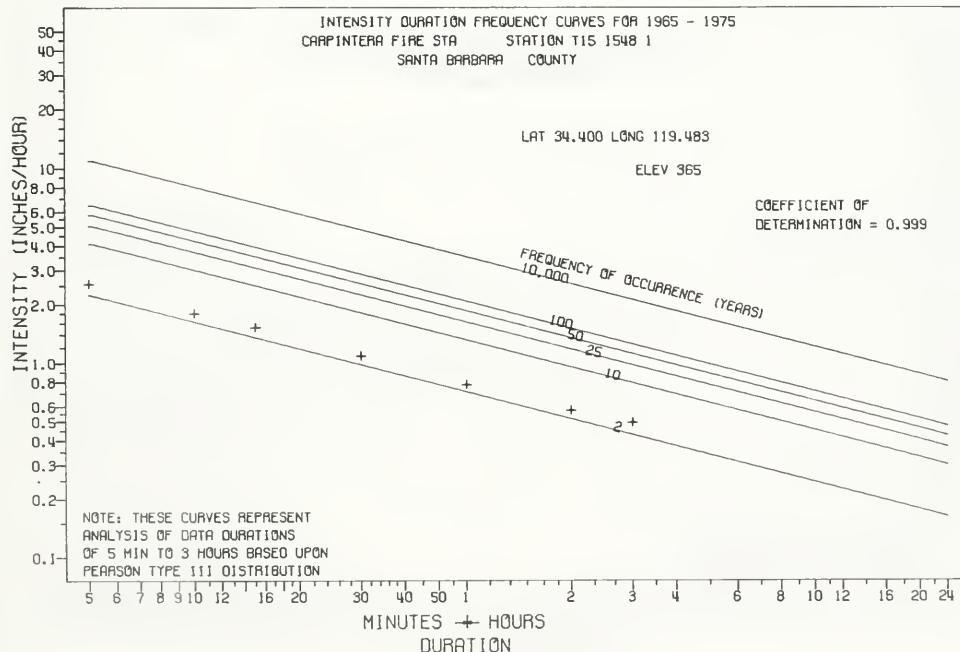


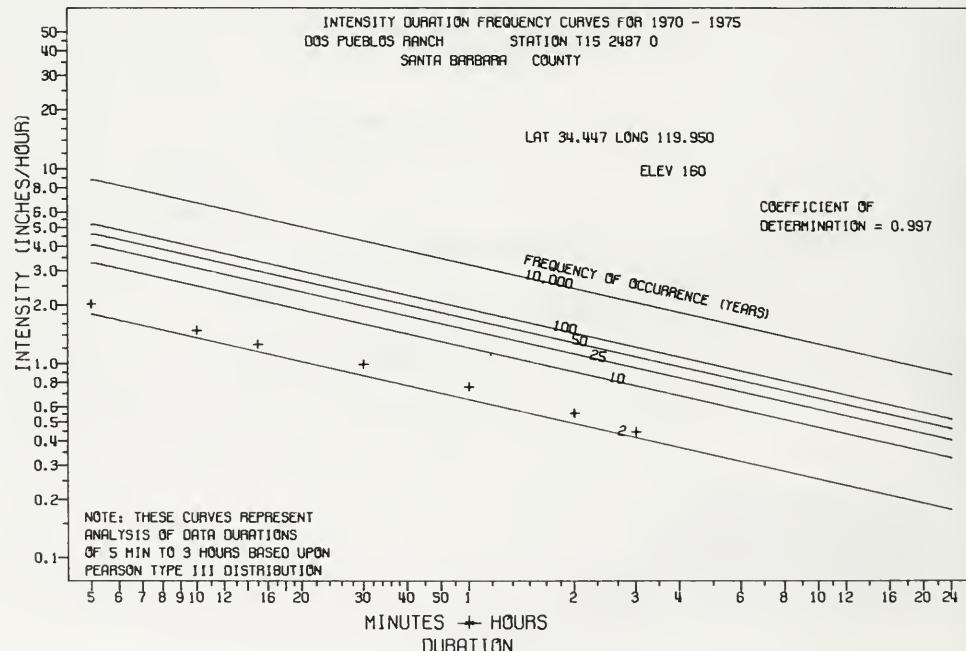
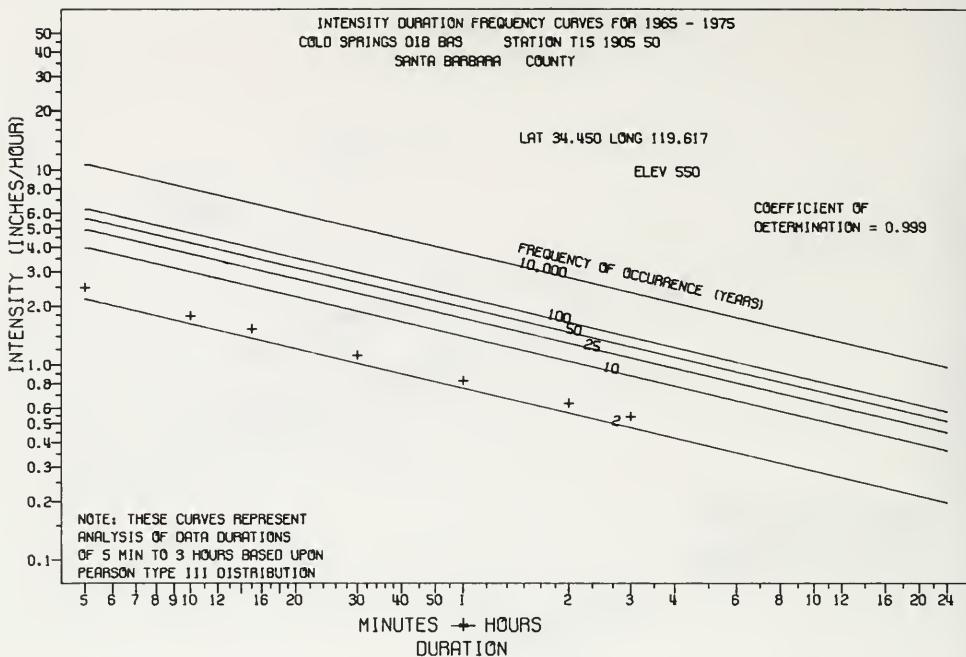


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 SURF 2 ENE STATION T14 8697 0
 SANTA BARBARA COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1975
 CARPINTERIA FIRE STA STATION T15 1548 1
 SANTA BARBARA COUNTY





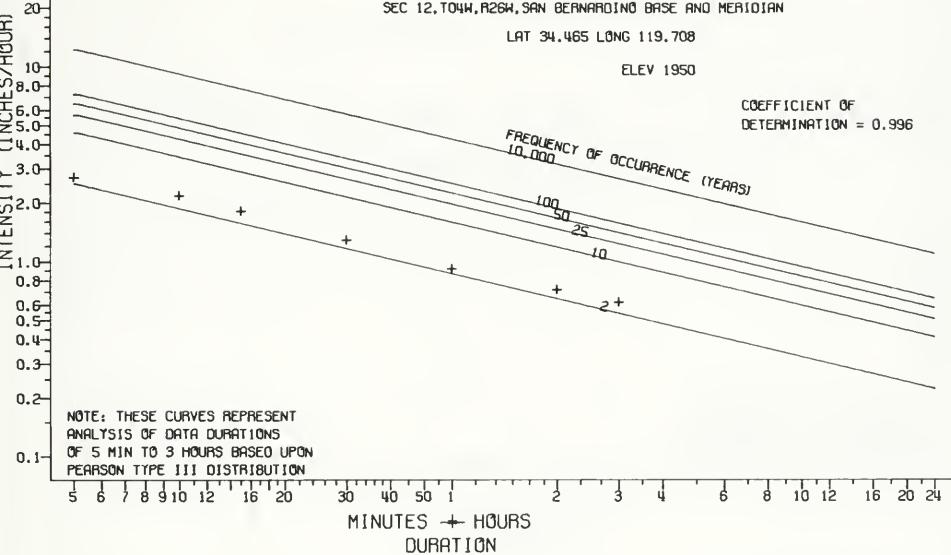
INTENSITY DURATION FREQUENCY CURVES FOR 1966 - 1975
 DOULTON TUNNEL 231 STATION T15 2493 11
 SANTA BARBARA COUNTY

SEC 12, T04W, R26S, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.465 LONG 119.708

ELEV 1950

COEFFICIENT OF
 DETERMINATION = 0.996



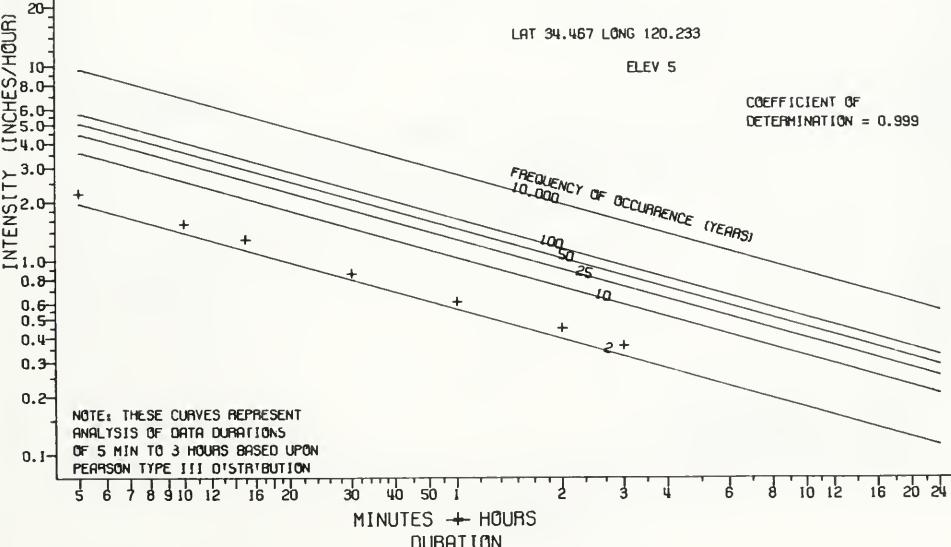
NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON
 PEARSON TYPE III DISTRIBUTION

INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1974
 GAVIOTA STATE PARK STATION T15 3367 10
 SANTA BARBARA COUNTY

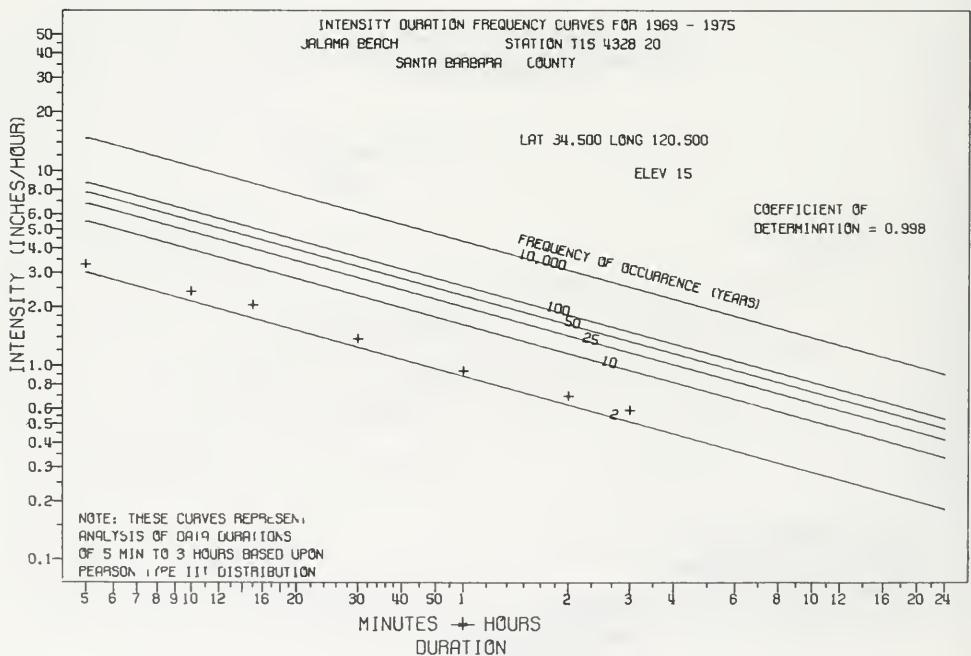
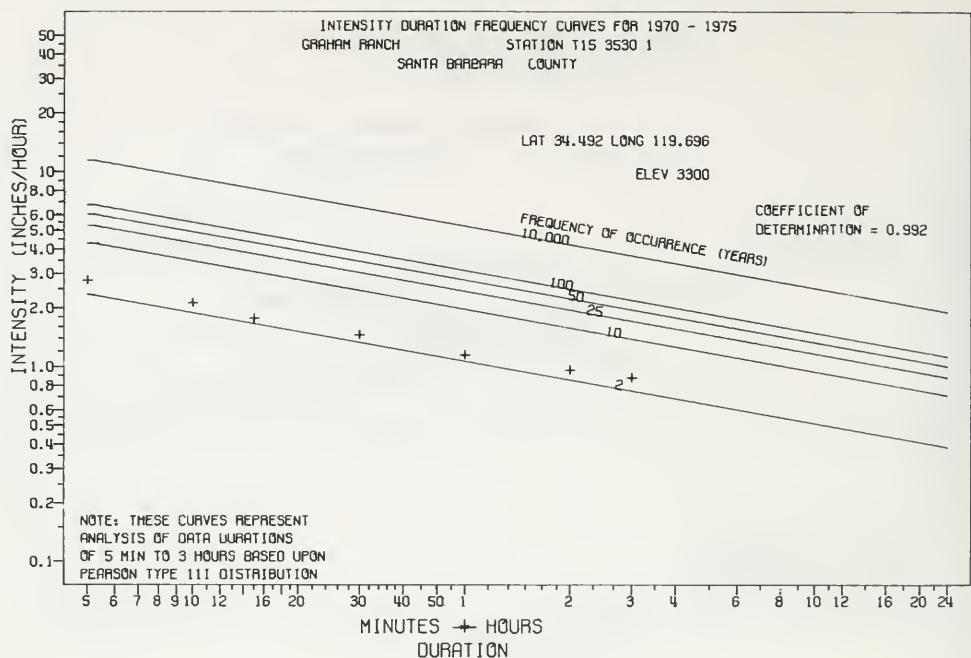
LAT 34.467 LONG 120.233

ELEV 5

COEFFICIENT OF
 DETERMINATION = 0.999



NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON
 PEARSON TYPE III DISTRIBUTION



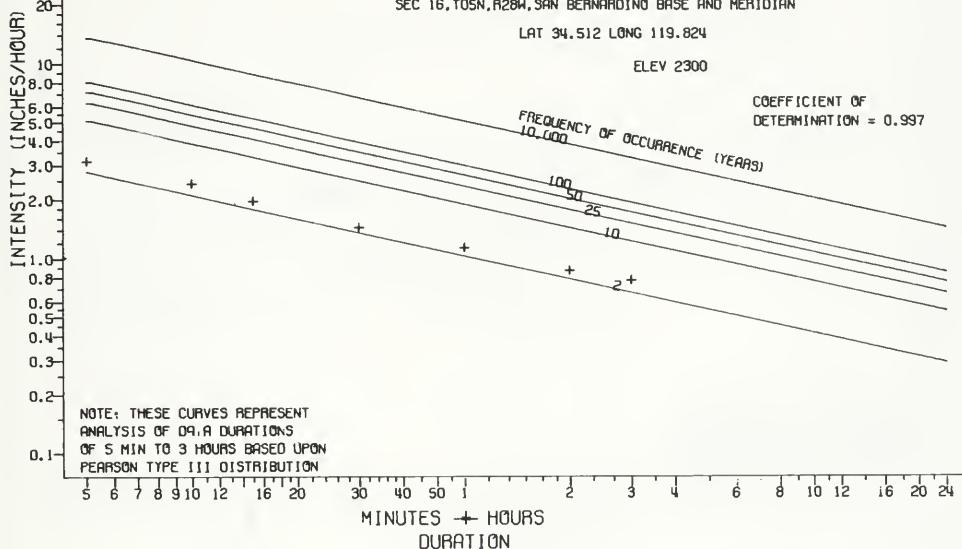
INTENSITY DURATION FREQUENCY CURVES FOR 1965 - 1975
 SAN MARCOS PASS STATION T15 7859 0
 SANTA BARBARA COUNTY

SEC 16, TOSN, R28W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.512 LONG 119.824

ELEV 2300

COEFFICIENT OF
 DETERMINATION = 0.997



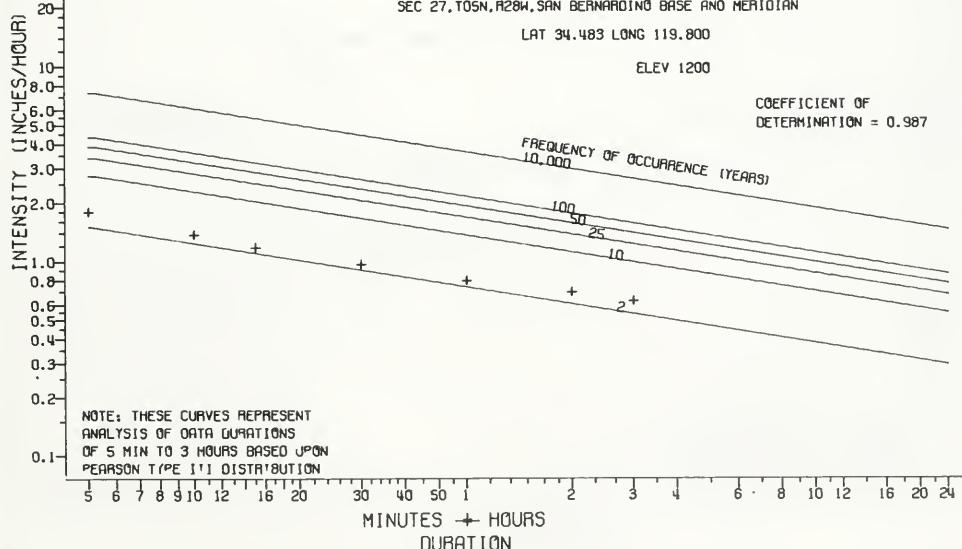
INTENSITY DURATION FREQUENCY CURVES FOR 1967 - 1975
 SAN MARCOS TRAIL CL 242 STATION T15 7859 65
 SANTA BARBARA COUNTY

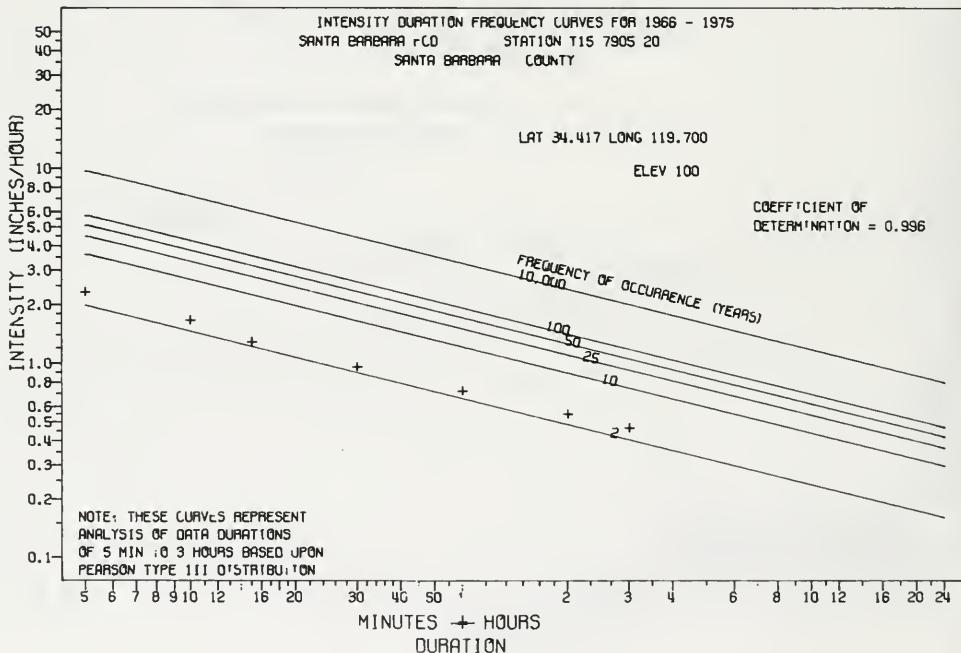
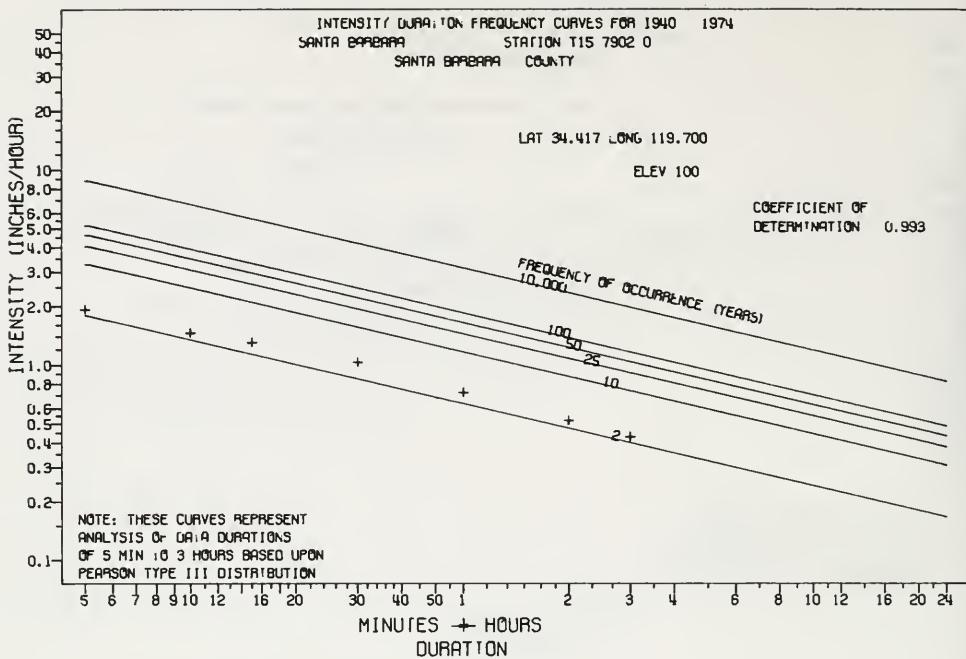
SEC 27, TOSN, R28W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.483 LONG 119.800

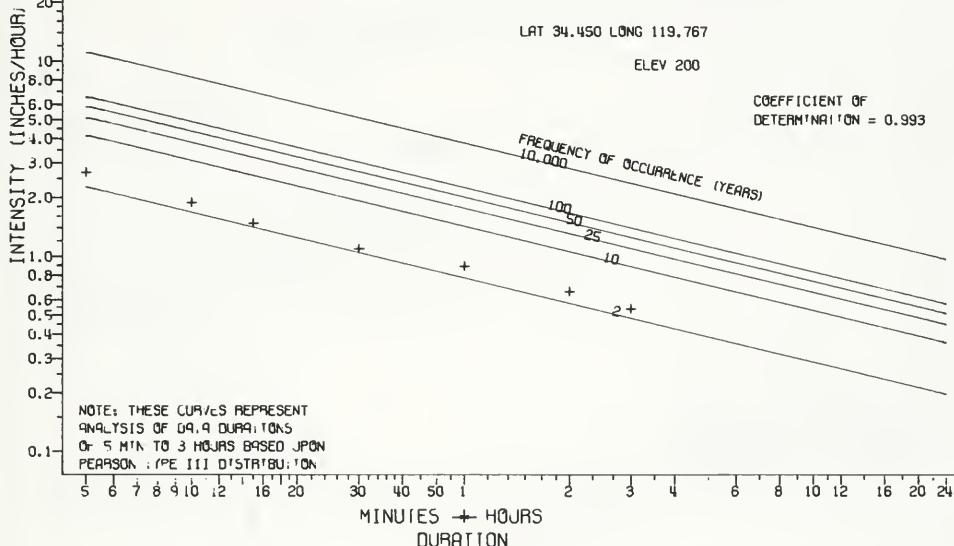
ELEV 1200

COEFFICIENT OF DETERMINATION = 0.987

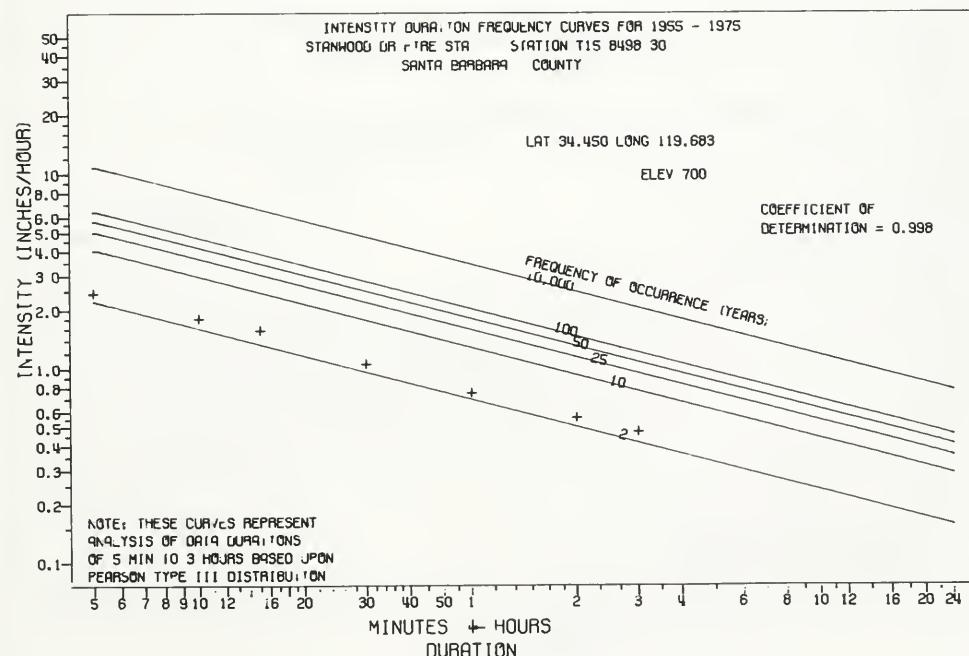


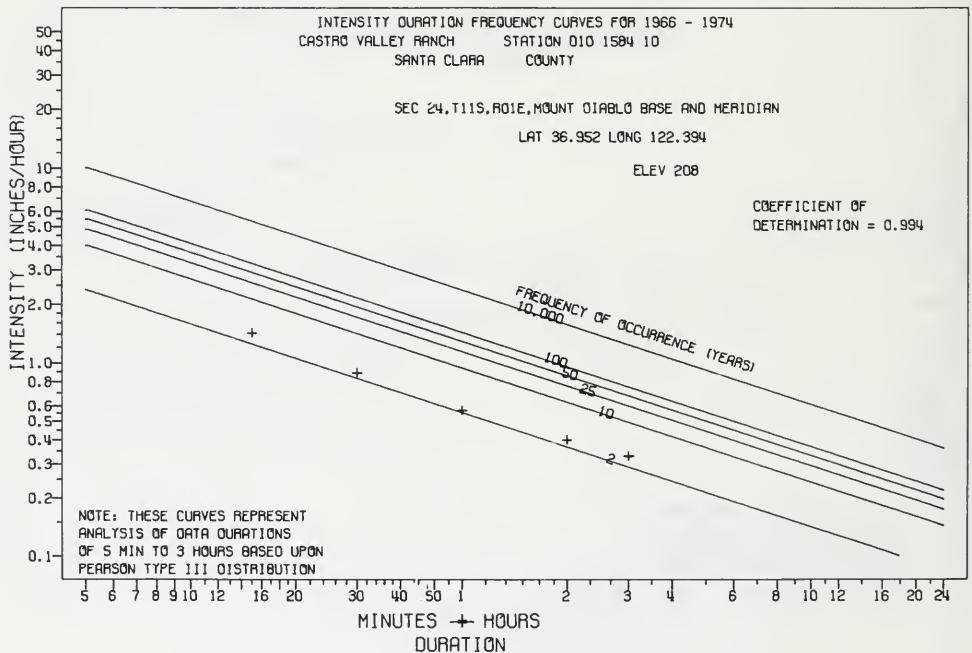
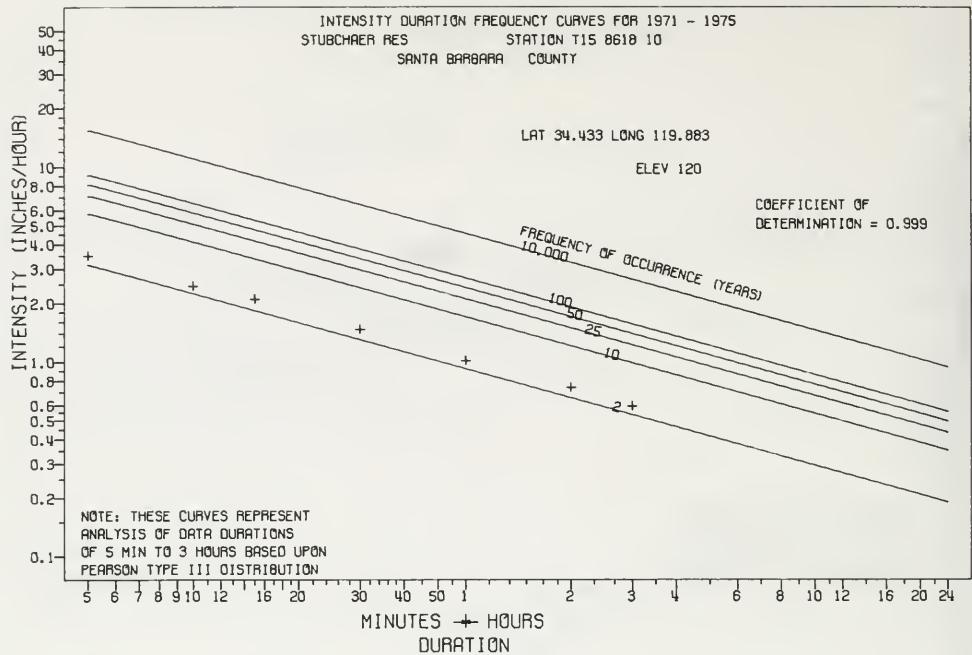


INTENSITY DURATION FREQUENCY CURVES FOR 1967 - 1975
 SANTA BARBARA CO RD LAB STATION T15 7905 30
 SANTA BARBARA COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1955 - 1975
 STANHOOD DR FIRE STA STATION T15 8498 30
 SANTA BARBARA COUNTY

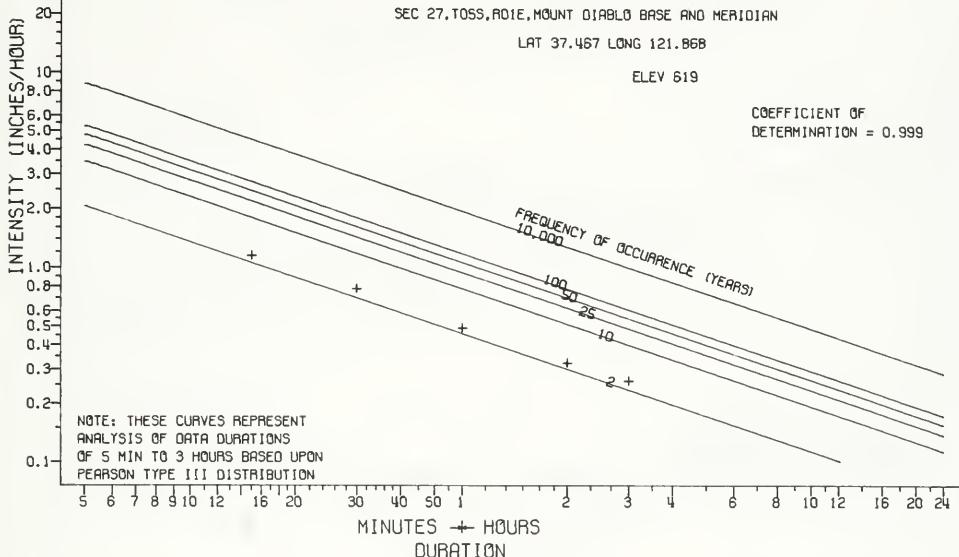




INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 CURTNER RANCH STATION 010 2232 10
 SANTA CLARA COUNTY

SEC 27, T05S, R01E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.467 LONG 121.868
 ELEV 619

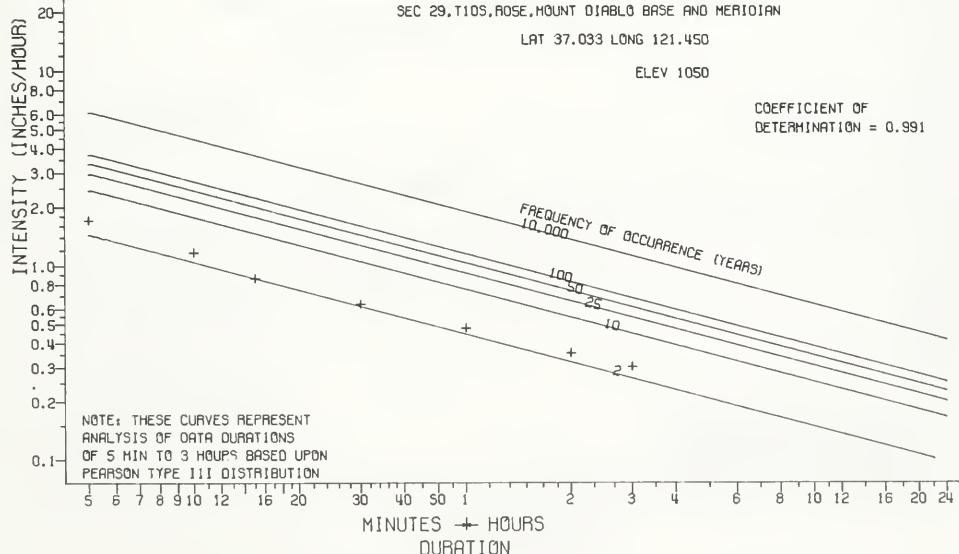
COEFFICIENT OF
 DETERMINATION = 0.999



INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 GILROY 8NE STATION 010 3419 0
 SANTA CLARA COUNTY

SEC 29, T10S, R01E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.033 LONG 121.450
 ELEV 1050

COEFFICIENT OF
 DETERMINATION = 0.991



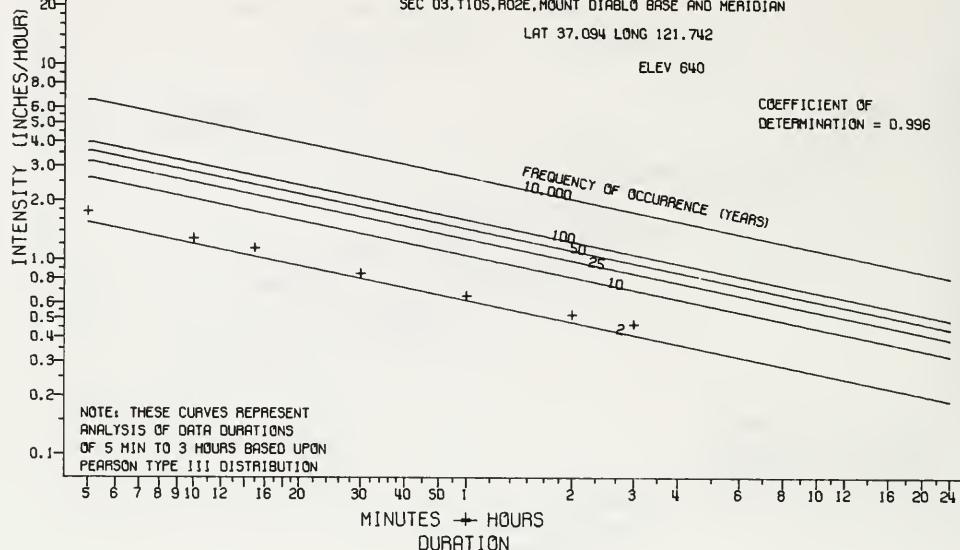
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1973
 MORGAN HILL 6 WSW STATION DIO 5846 0
 SANTA CLARA COUNTY

SEC 03, T10S, R02E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.094 LONG 121.742

ELEV 640

COEFFICIENT OF
 DETERMINATION = 0.996



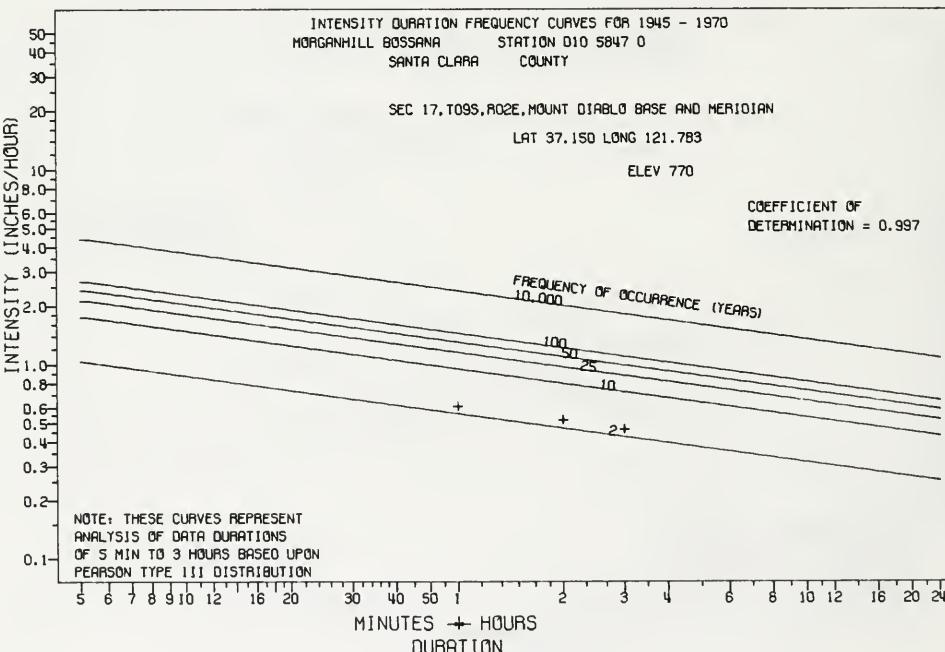
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1970
 MORGANHILL BOSSANA STATION DIO 5847 0
 SANTA CLARA COUNTY

SEC 17, T09S, R02E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.150 LONG 121.783

ELEV 770

COEFFICIENT OF
 DETERMINATION = 0.997



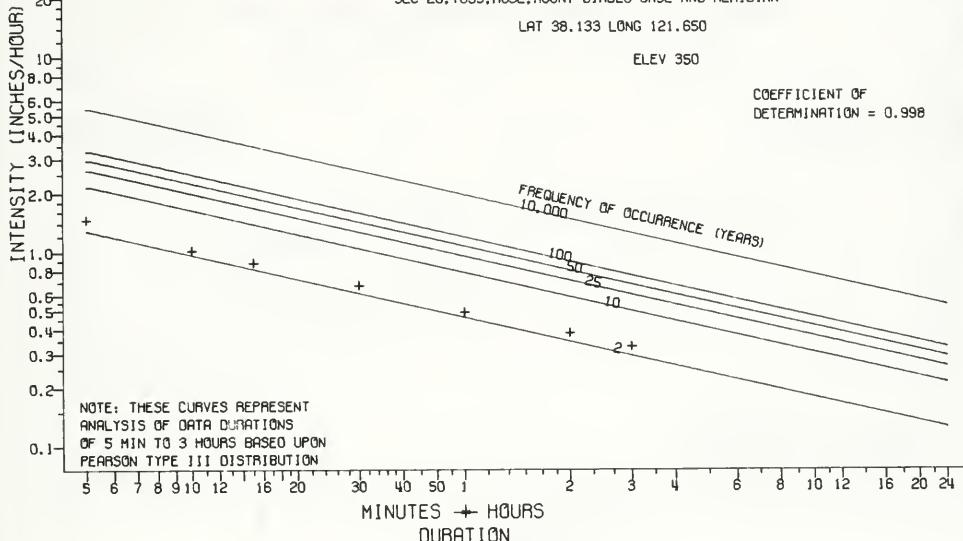
INTENSITY DURATION FREQUENCY CURVES FOR 1946 - 1974
 MORGAN HILL SCS STATION 010 5853 0
 SANTA CLARA COUNTY

SEC 20, T09S, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.133 LONG 121.650

ELEV 350

COEFFICIENT OF
 DETERMINATION = 0.998



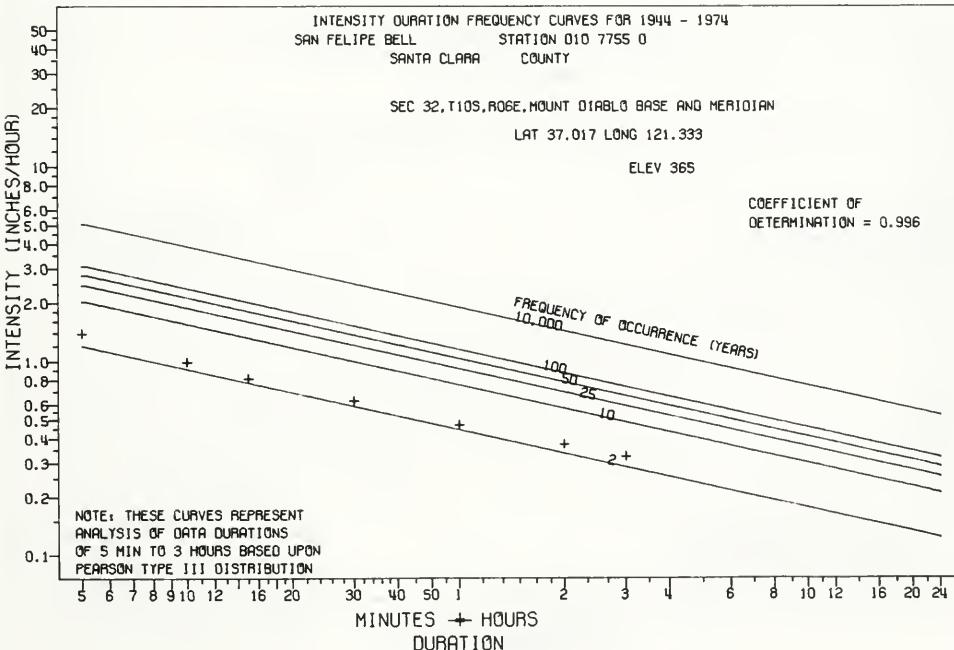
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 SAN FELIPE BELL STATION 010 7755 0
 SANTA CLARA COUNTY

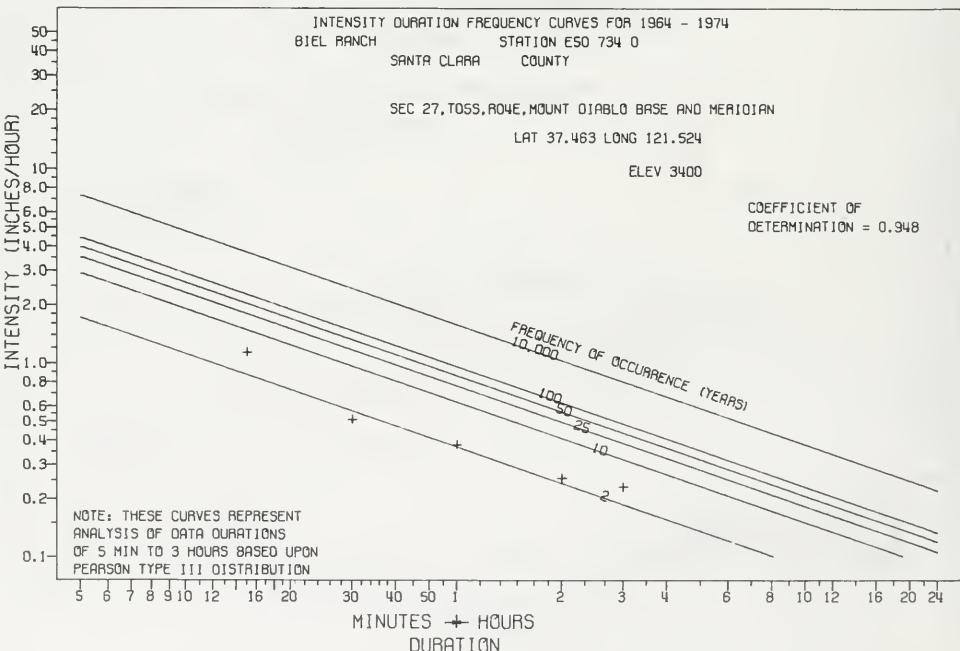
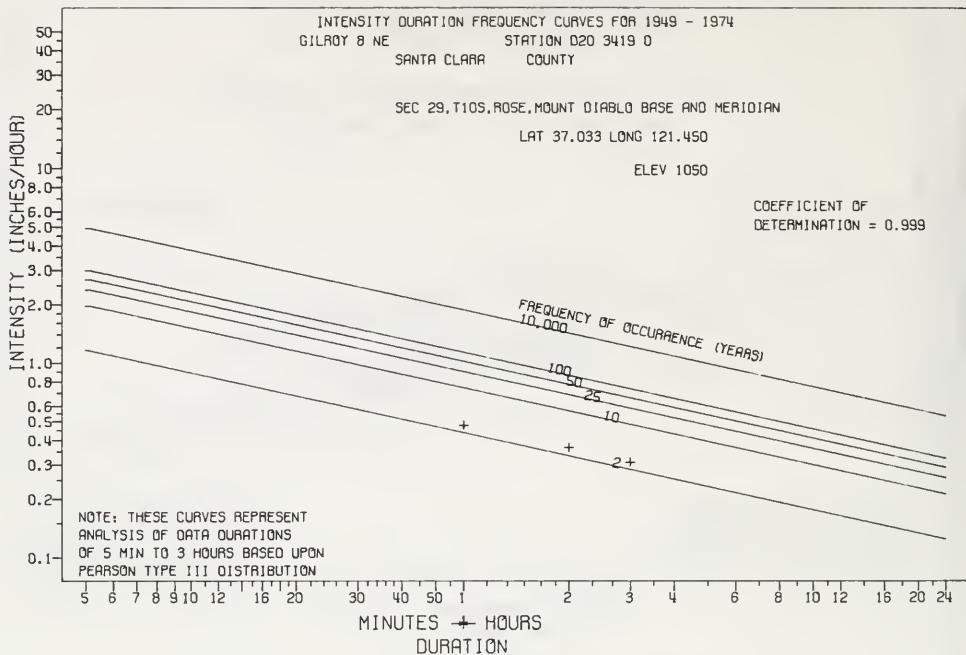
SEC 32, T10S, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.017 LONG 121.333

ELEV 365

COEFFICIENT OF
 DETERMINATION = 0.996





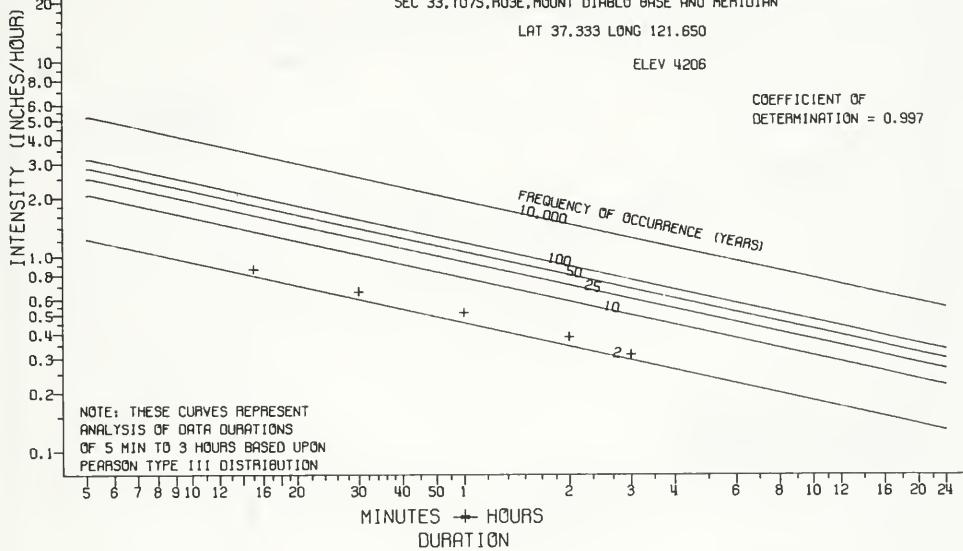
INTENSITY DURATION FREQUENCY CURVES FOR 1966 - 1974
 MT HAMILTON 67 STATION E50 5933 0
 SANTA CLARA COUNTY

SEC 33, T07S, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.333 LONG 121.650

ELEV 4206

COEFFICIENT OF
 DETERMINATION = 0.997



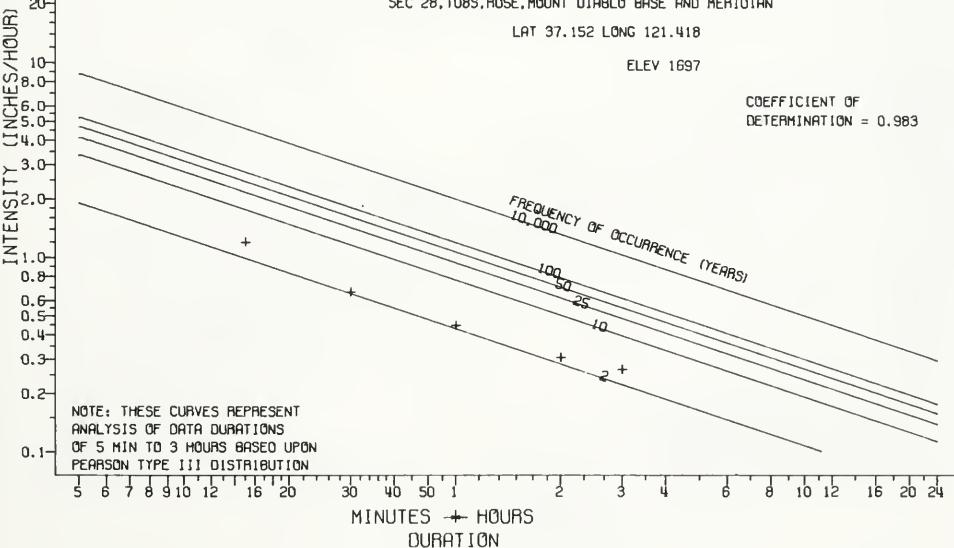
INTENSITY DURATION FREQUENCY CURVES FOR 1964 - 1974
 COIT RANCH 18 STATION E60 1885 43
 SANTA CLARA COUNTY

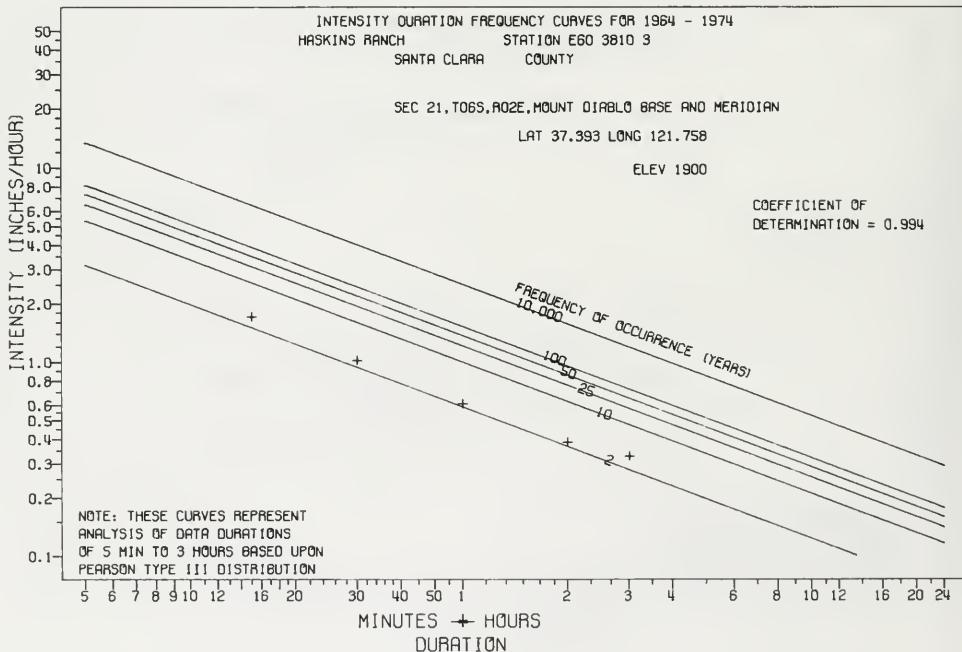
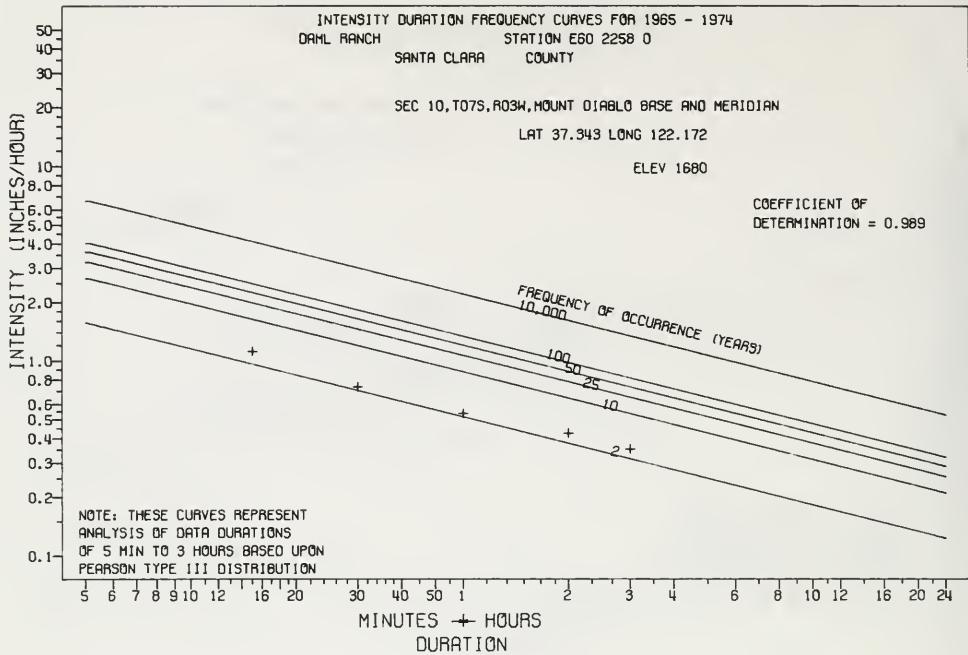
SEC 28, T08S, R03E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.152 LONG 121.418

ELEV 1697

COEFFICIENT OF
 DETERMINATION = 0.983





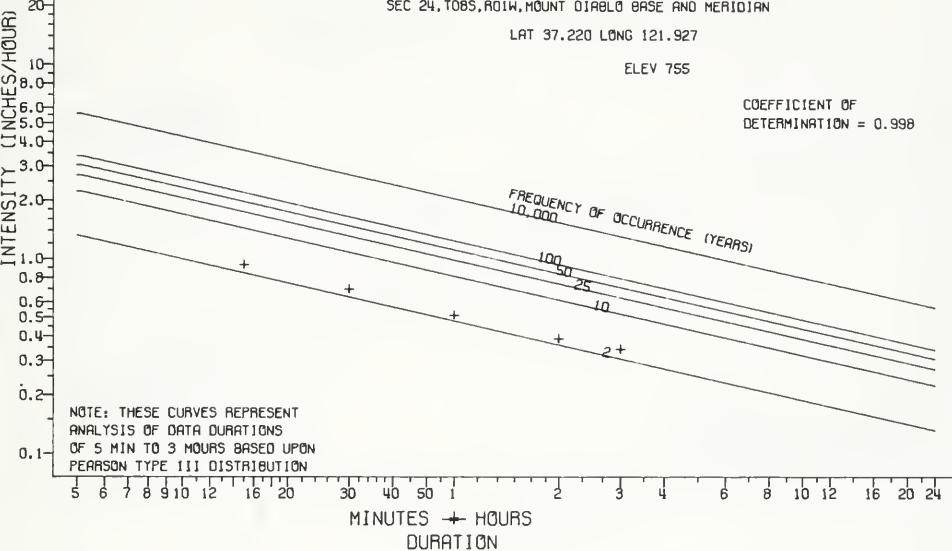
INTENSITY DURATION FREQUENCY CURVES FOR 1968 - 1974
 JOHNSON RANCH STATION E60 4350 0
 SANTA CLARA COUNTY

SEC 24, T08S, R01W, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.220 LONG 121.927

ELEV 755

COEFFICIENT OF
 DETERMINATION = 0.998



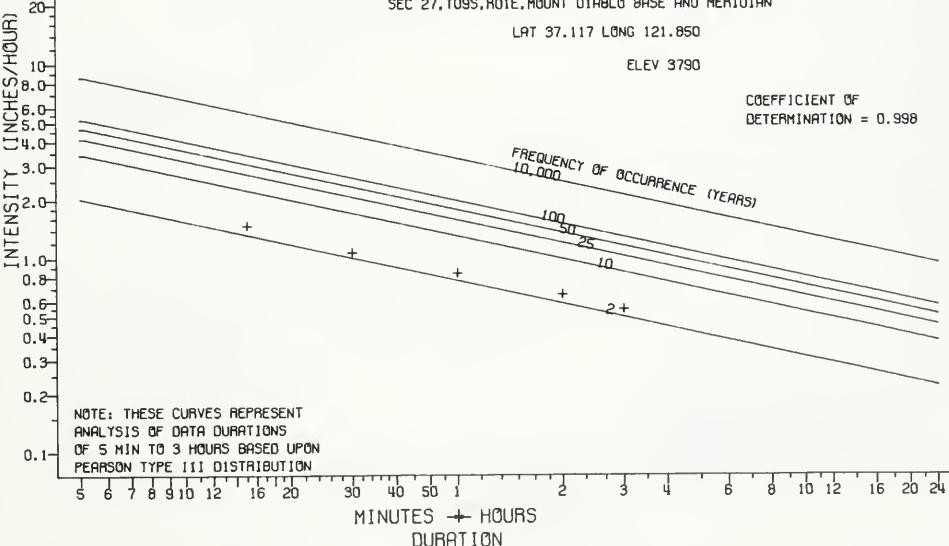
INTENSITY DURATION FREQUENCY CURVES FOR 1966 - 1974
 LOMA PRIETA STATION E60 5058 0
 SANTA CLARA COUNTY

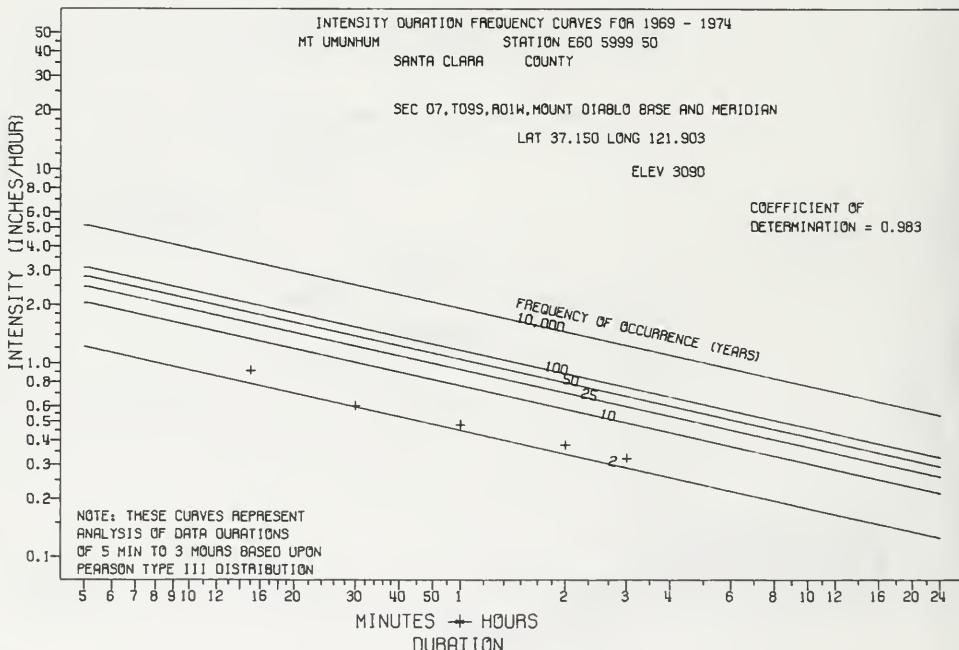
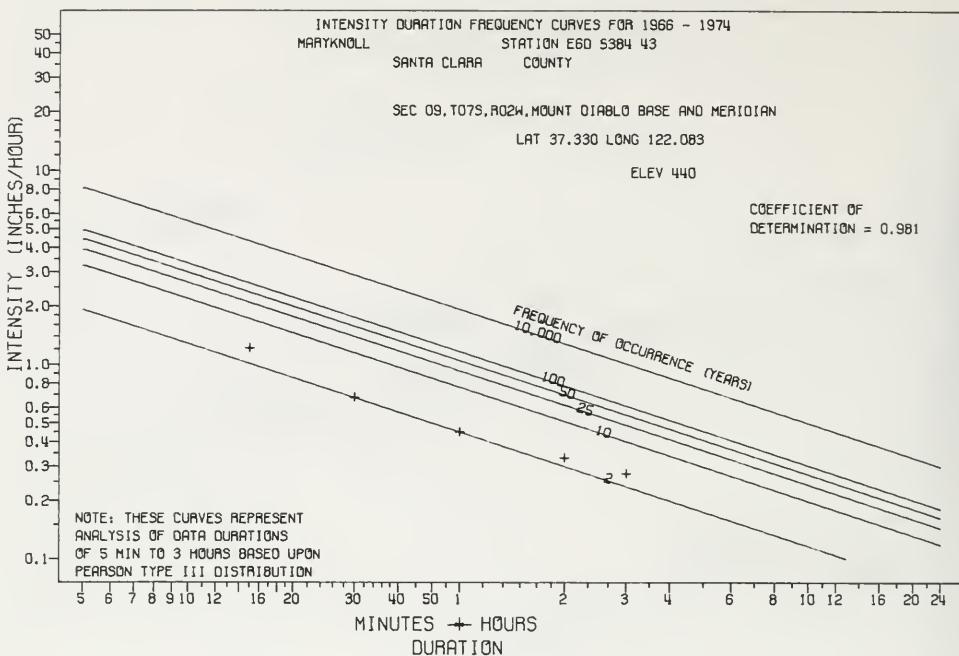
SEC 27, T08S, R01E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.117 LONG 121.850

ELEV 3790

COEFFICIENT OF
 DETERMINATION = 0.998





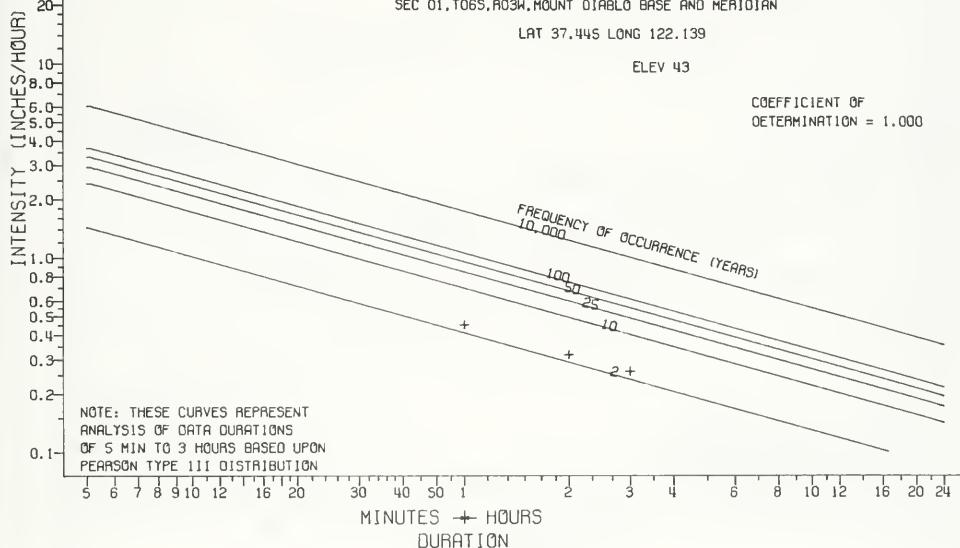
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 PALO ALTO CITY HALL STATION E60 6846 0
 SANTA CLARA COUNTY

SEC 01, T06S, R03W, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.445 LONG 122.139

ELEV 43

COEFFICIENT OF
 DETERMINATION = 1.000



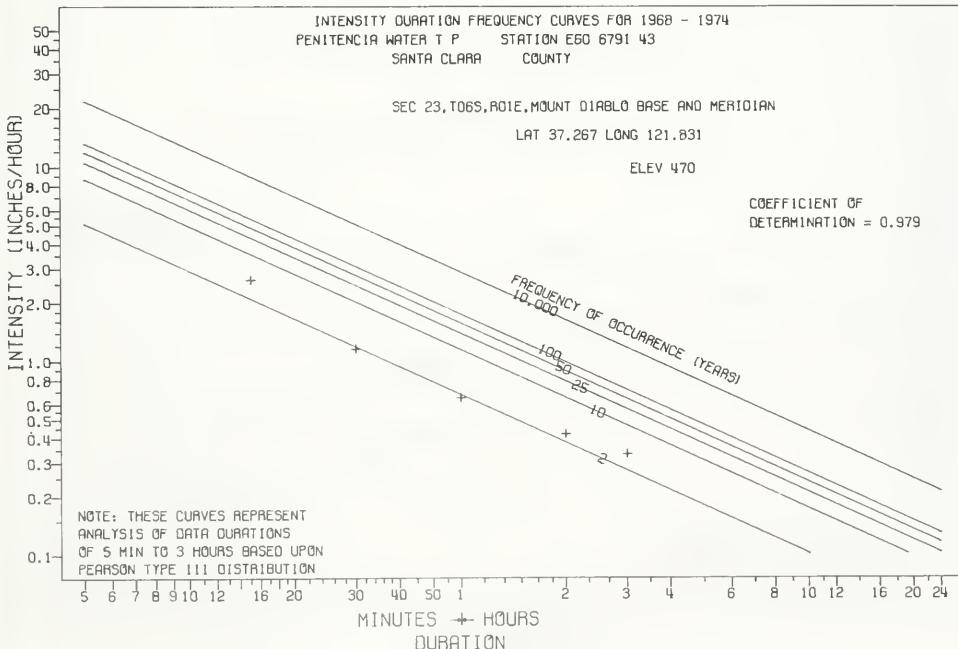
INTENSITY DURATION FREQUENCY CURVES FOR 1968 - 1974
 PENITENCIA WATER T P STATION E60 6791 43
 SANTA CLARA COUNTY

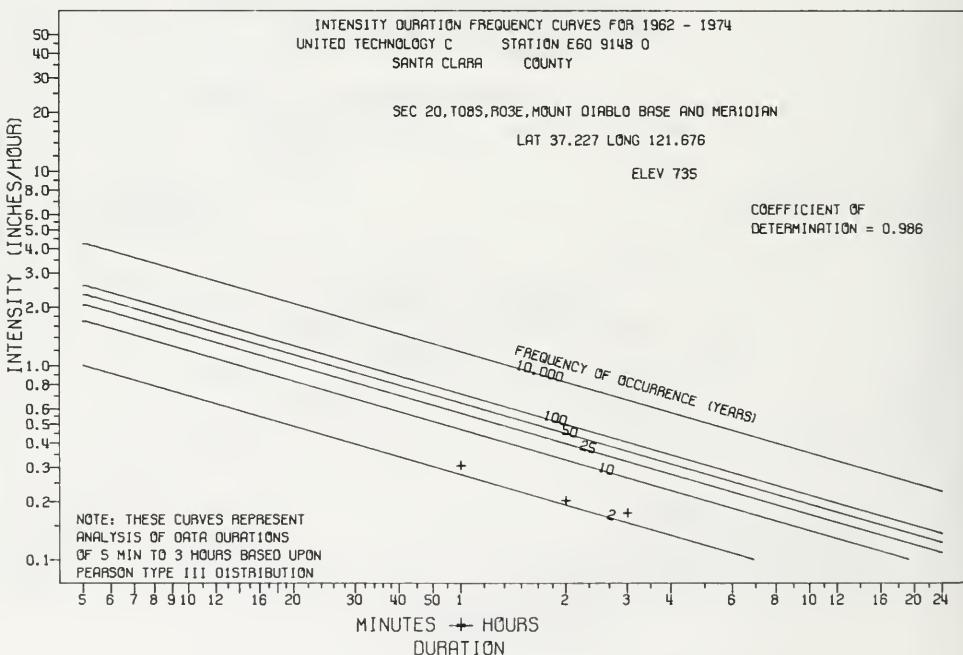
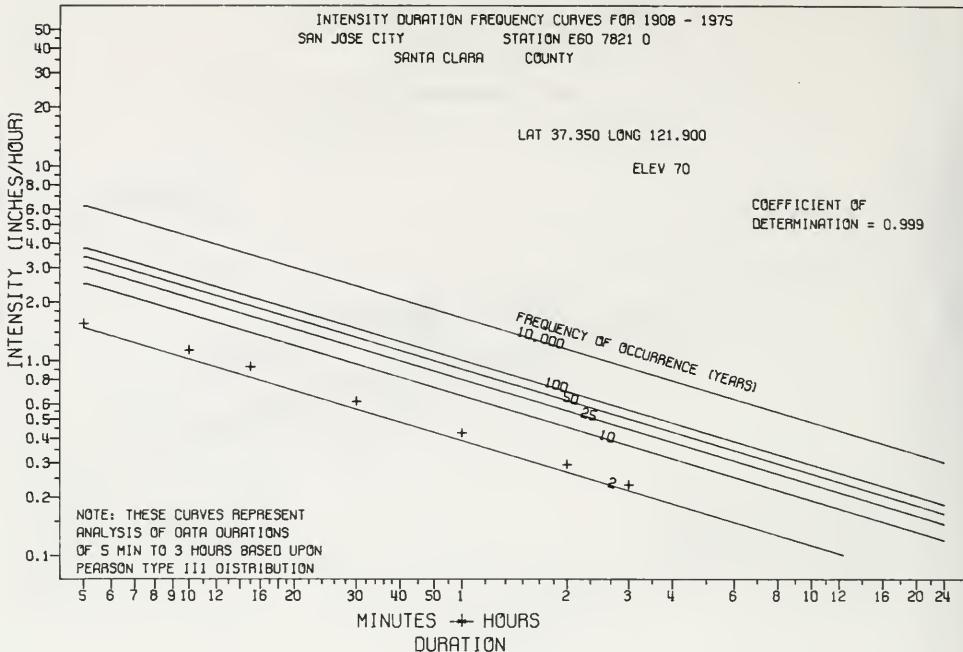
SEC 23, T06S, R01E, MOUNT DIABLO BASE AND MERIDIAN

LAT 37.267 LONG 121.831

ELEV 470

COEFFICIENT OF
 DETERMINATION = 0.979



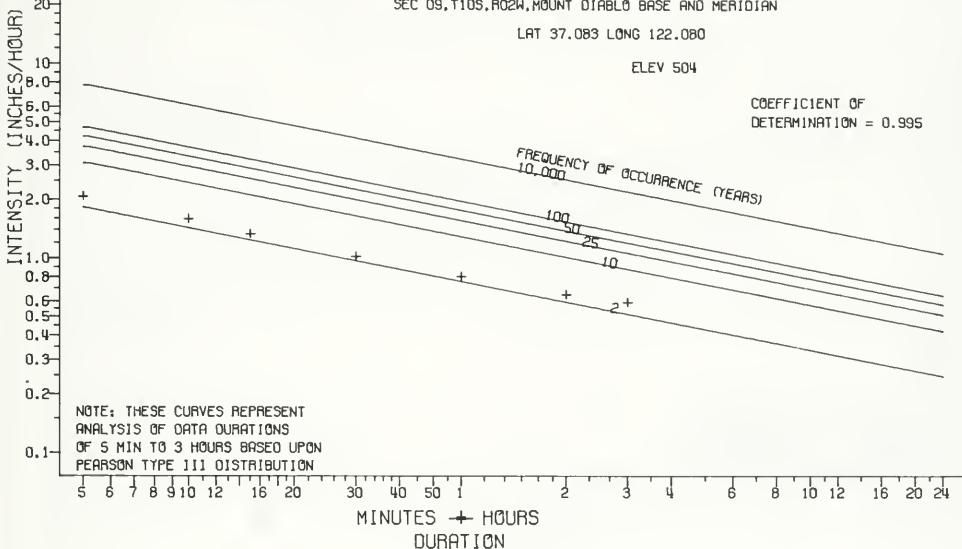


INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
 BEN LOMOND RANGE STATION 000 674 50
 SANTA CRUZ COUNTY

SEC 09, T10S, R02W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.083 LONG 122.080

ELEV 504

COEFFICIENT OF
 DETERMINATION = 0.995

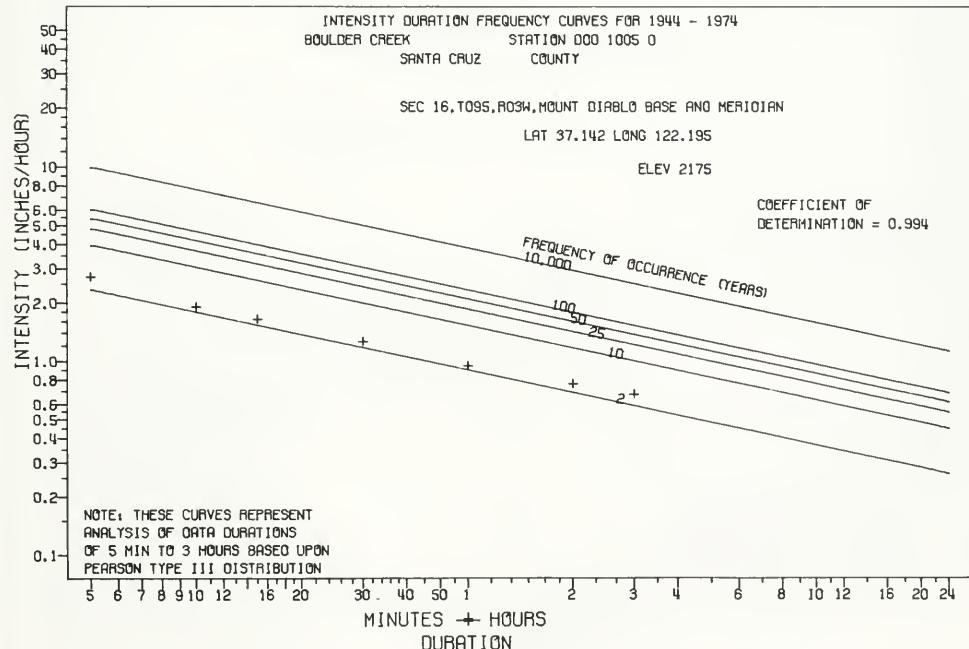


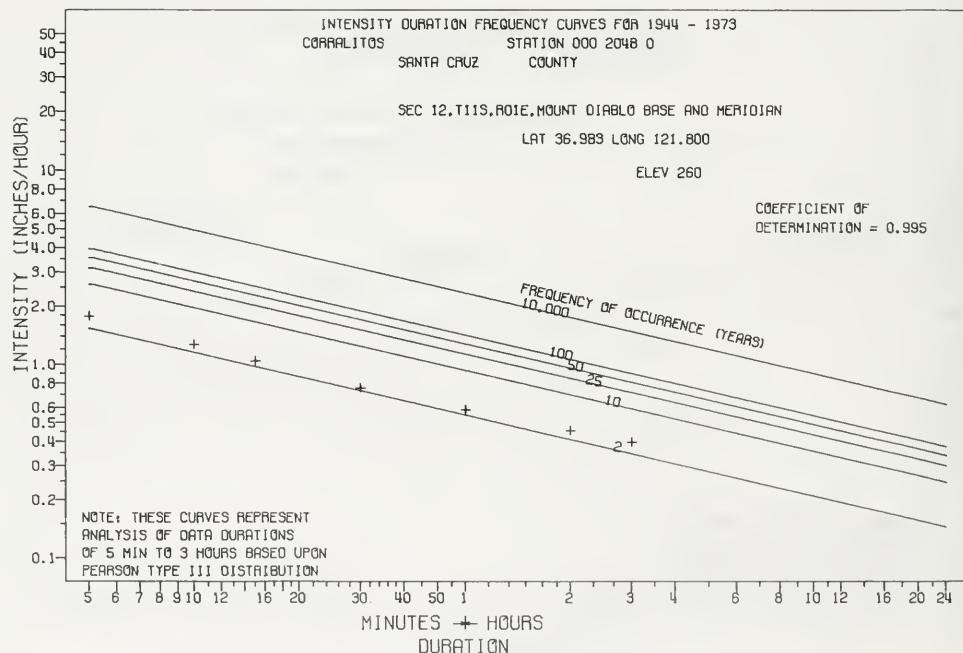
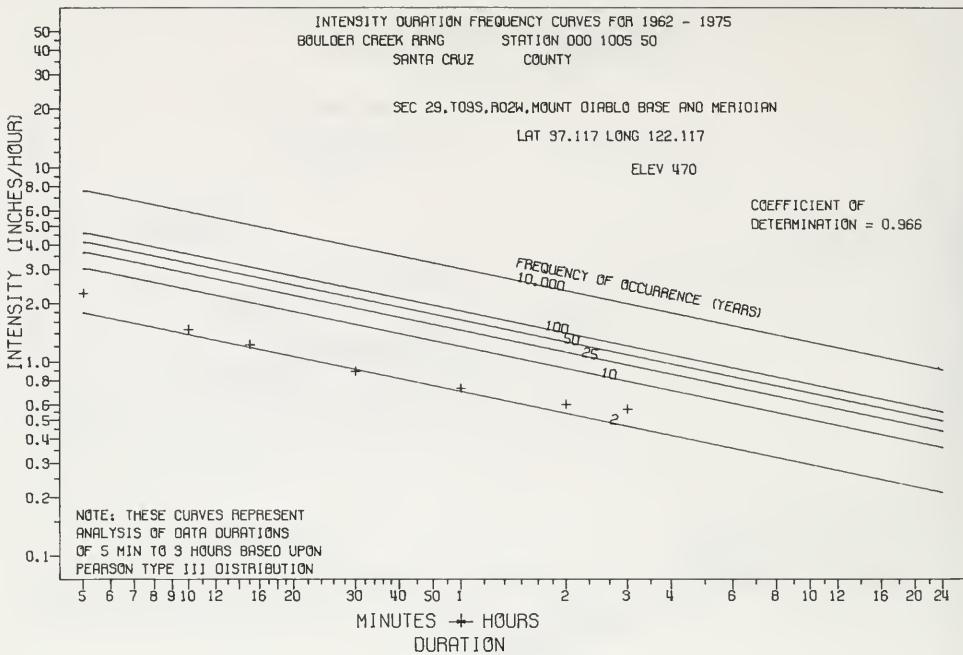
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1974
 BOULDER CREEK STATION 000 1005 0
 SANTA CRUZ COUNTY

SEC 16, T09S, R03W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.142 LONG 122.195

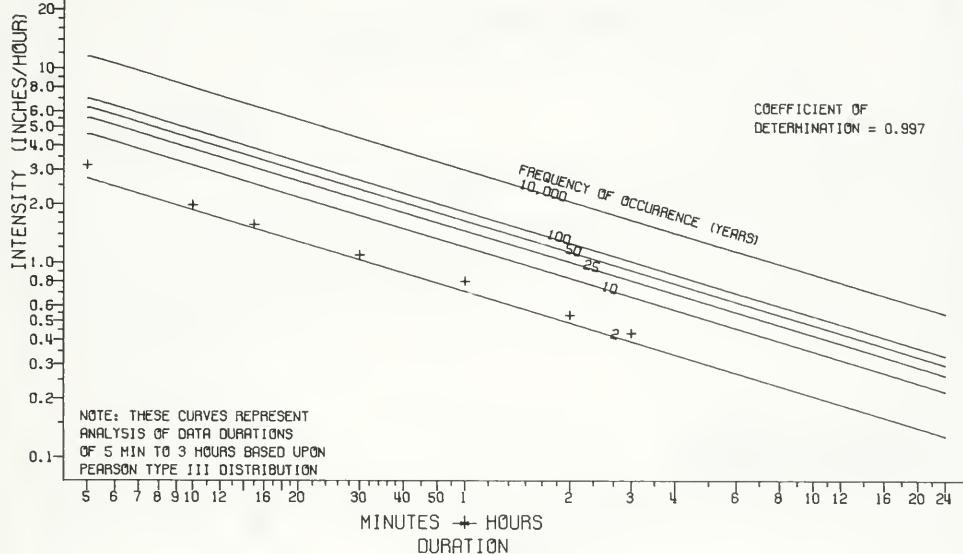
ELEV 2175

COEFFICIENT OF
 DETERMINATION = 0.994

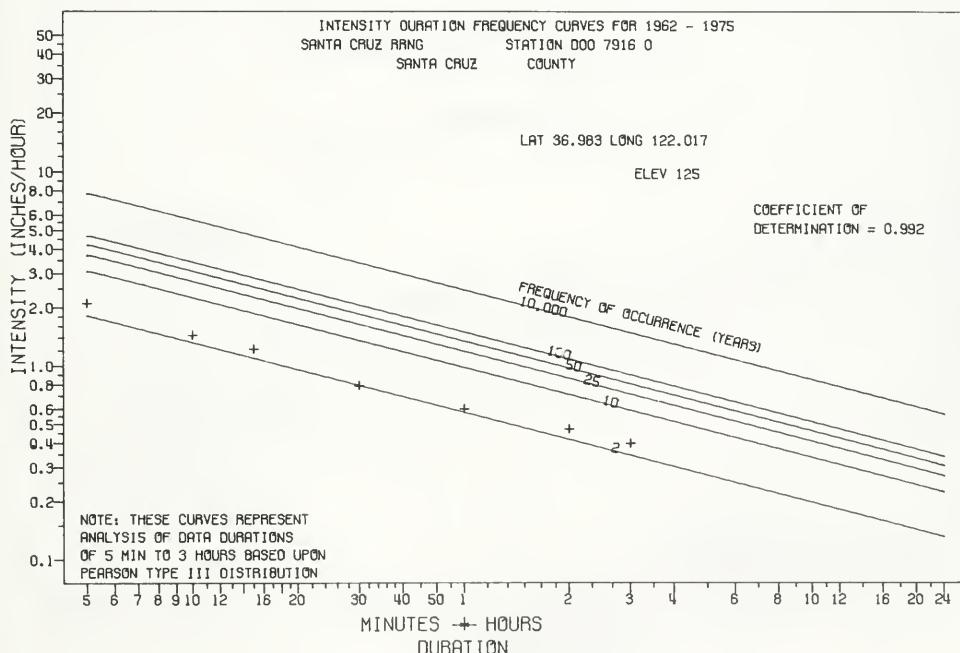




INTENSITY DURATION FREQUENCY CURVES FOR 1961 - 1975
 DAVENPORT RANG STATION 000 2290 SO
 SANTA CRUZ COUNTY



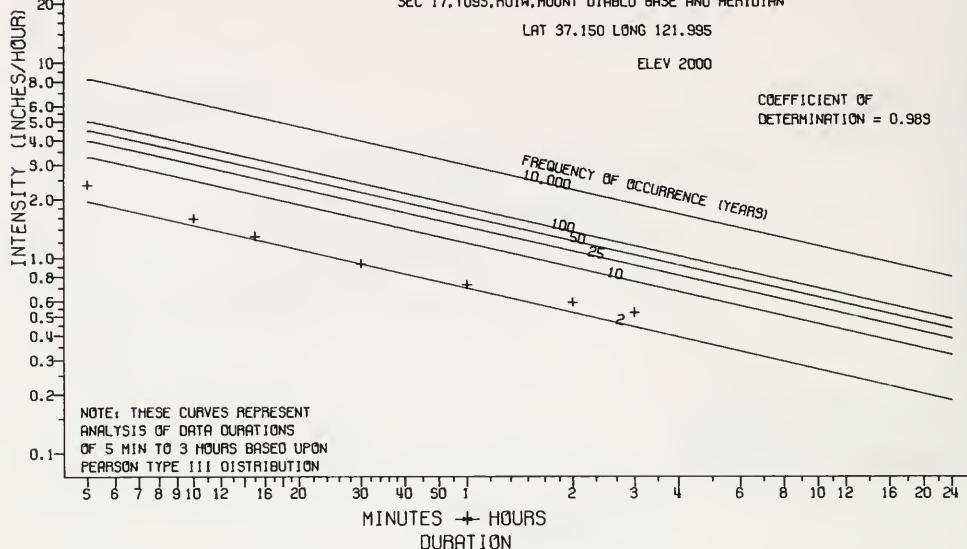
INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
 SANTA CRUZ RANG STATION 000 7916 0
 SANTA CRUZ COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
 SKYLINE SUMMIT STATION 000 8275 50
 SANTA CRUZ COUNTY

SEC 17, T10S, R01W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.150 LONG 121.995
 ELEV 2000

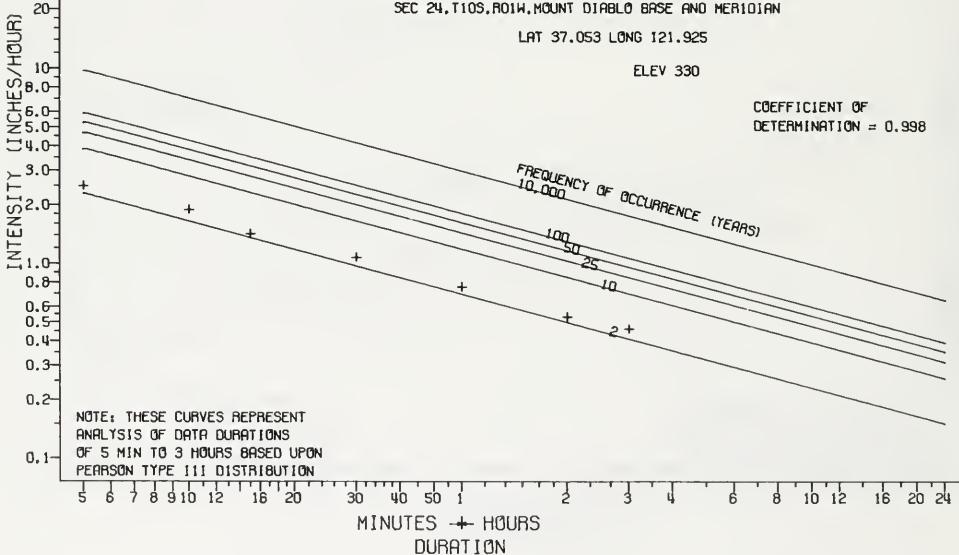
COEFFICIENT OF
 DETERMINATION = 0.983



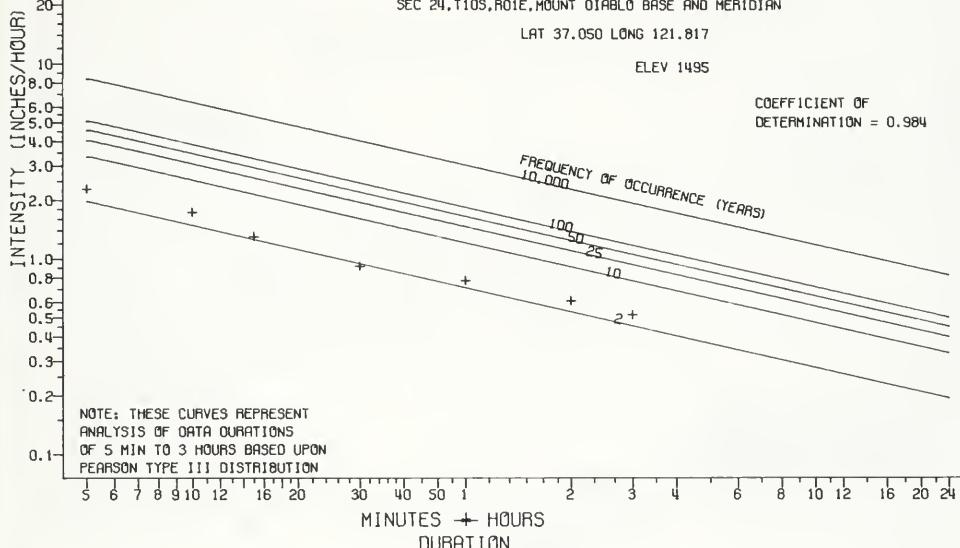
INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
 SEQUEL RANGE STATION 000 8372 30
 SANTA CRUZ COUNTY

SEC 24, T10S, R01W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.053 LONG 121.925
 ELEV 330

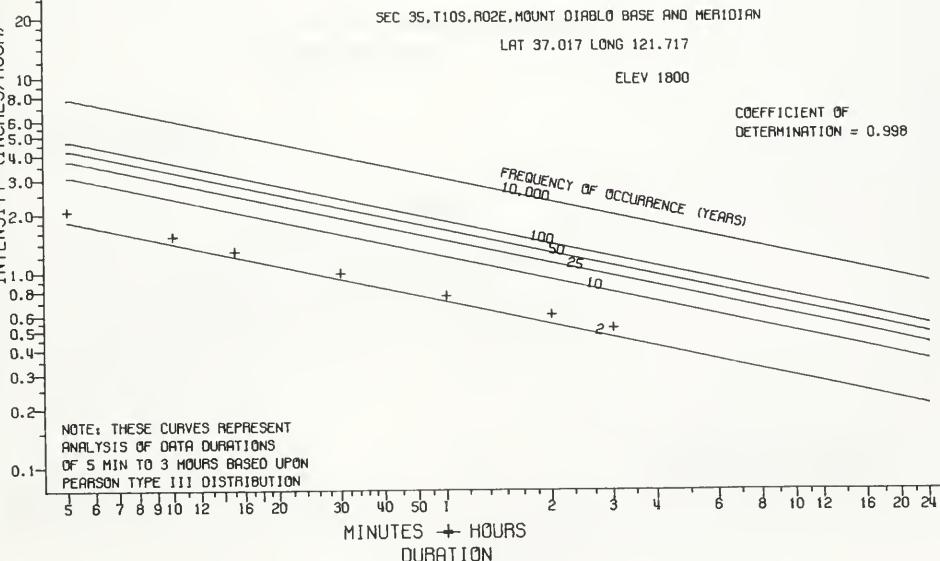
COEFFICIENT OF
 DETERMINATION = 0.998

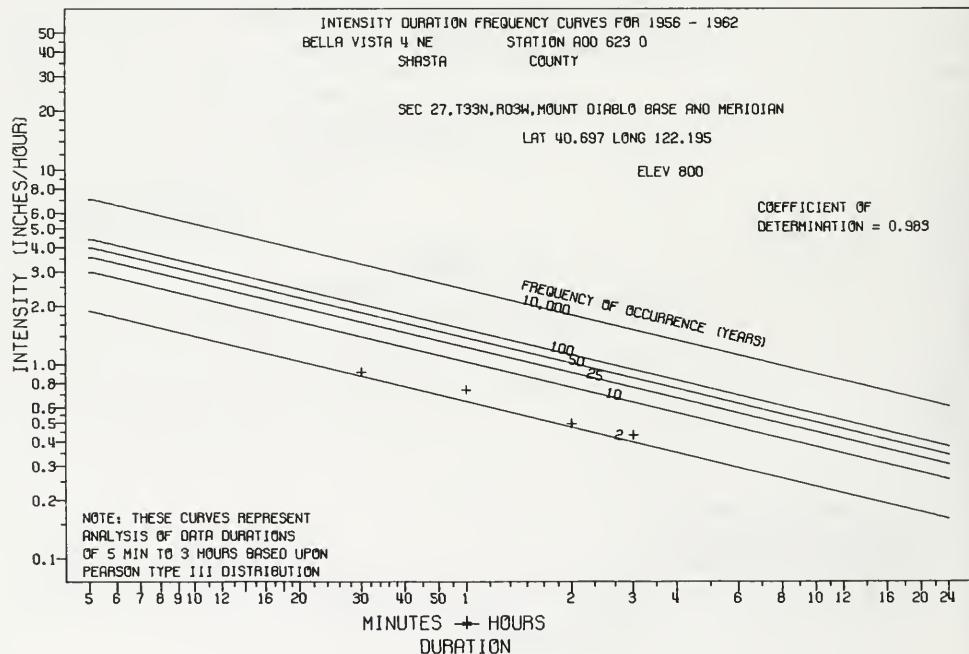
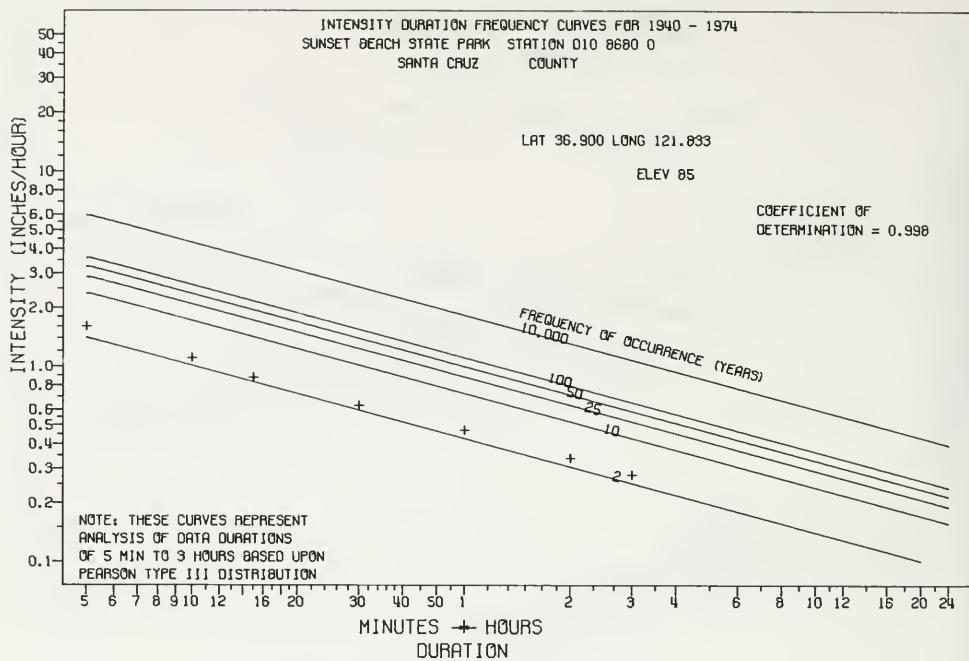


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 FREEDOM BMNW STATION 010 3232 0
 SANTA CRUZ COUNTY

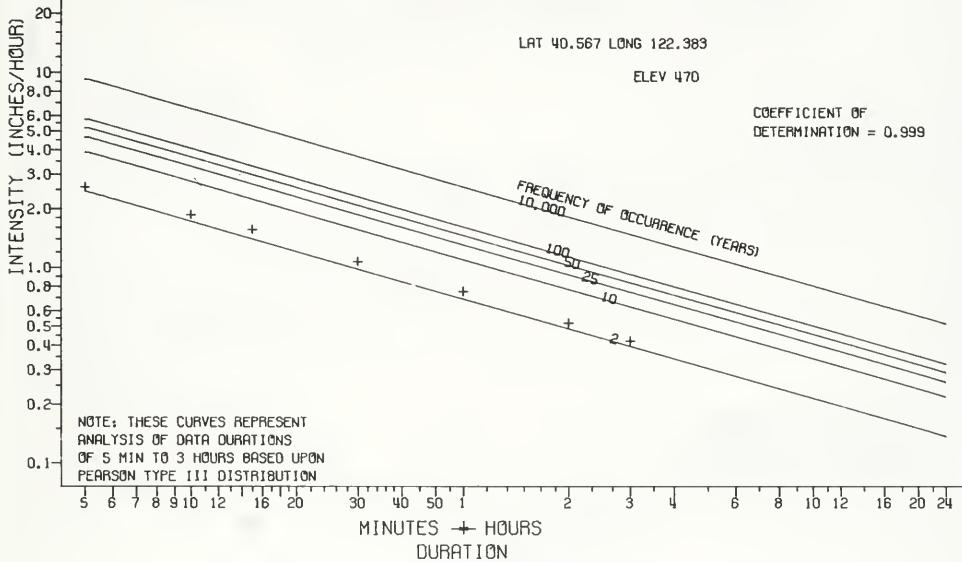


INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1972
 MT MADONNA STATION 010 5973 0
 SANTA CRUZ COUNTY





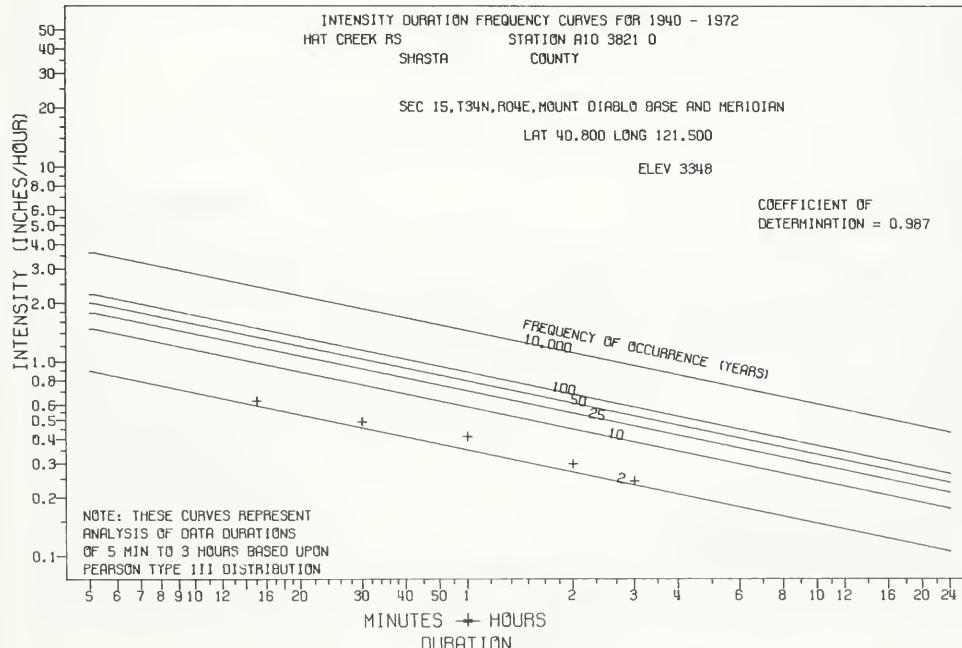
INTENSITY DURATION FREQUENCY CURVES FOR 1935 - 1974
 READING 1SE STATION A00 7295 0
 SHASTA COUNTY



NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON
 PEARSON TYPE III DISTRIBUTION

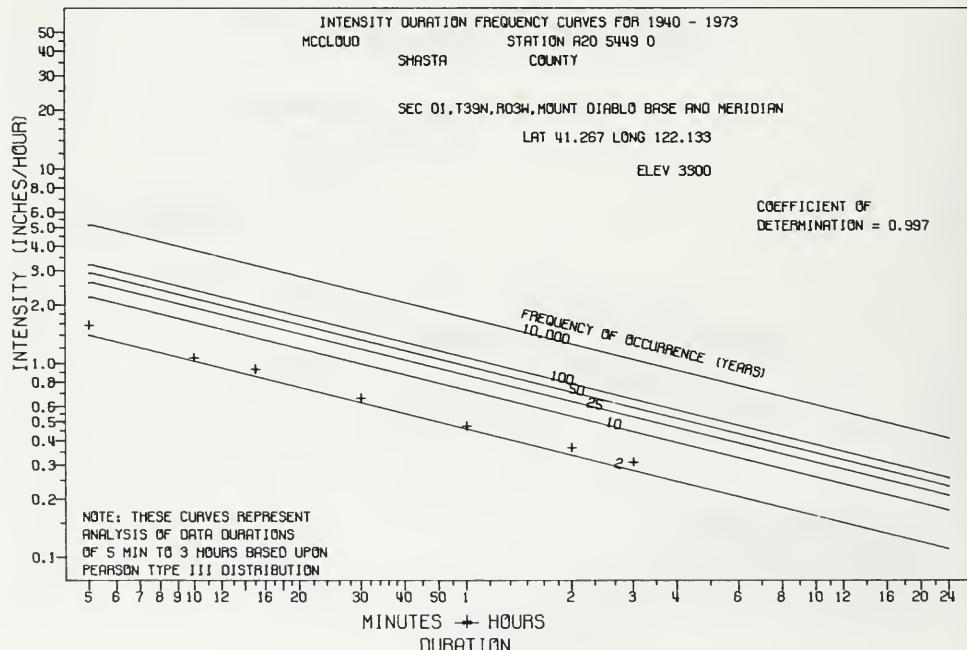
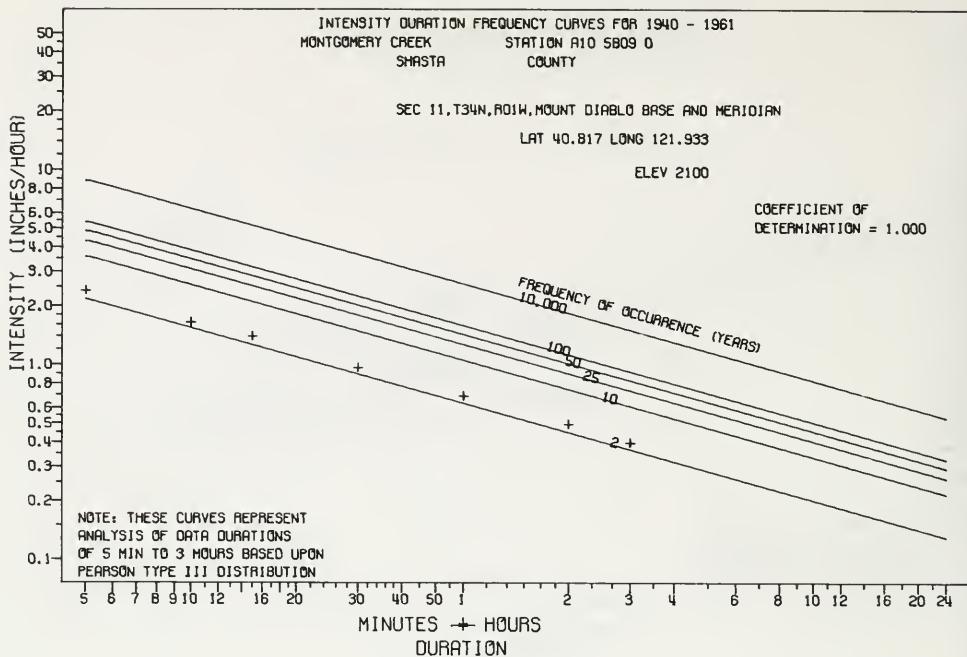
COEFFICIENT OF
 DETERMINATION = 0.999

INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1972
 HAT CREEK RS STATION A10 3821 0
 SHASTA COUNTY



NOTE: THESE CURVES REPRESENT
 ANALYSIS OF DATA DURATIONS
 OF 5 MIN TO 3 HOURS BASED UPON
 PEARSON TYPE III DISTRIBUTION

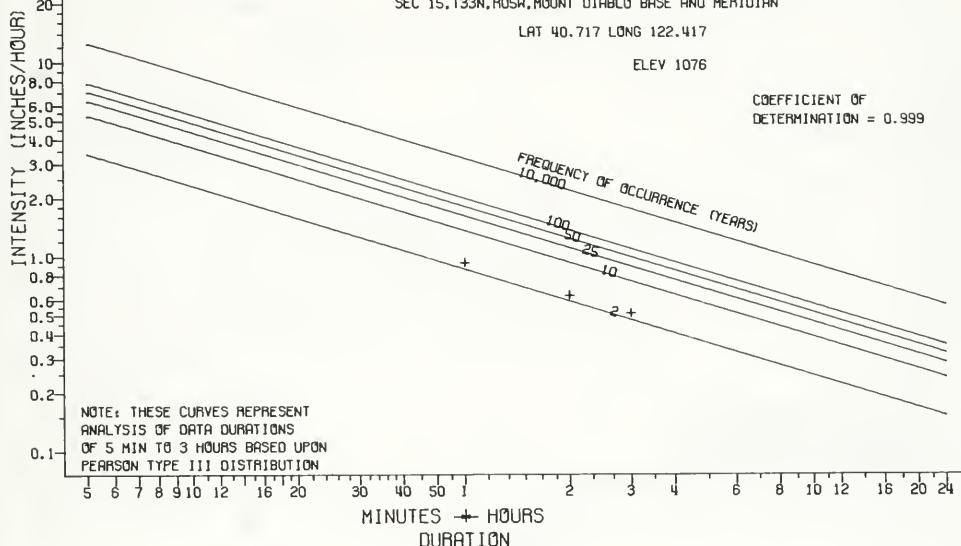
COEFFICIENT OF
 DETERMINATION = 0.987



INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1974
 SHASTA DAM STATION A20 B135 0
 SHASTA COUNTY

SEC 15, T33N, R05W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.717 LONG 122.417
 ELEV 1076

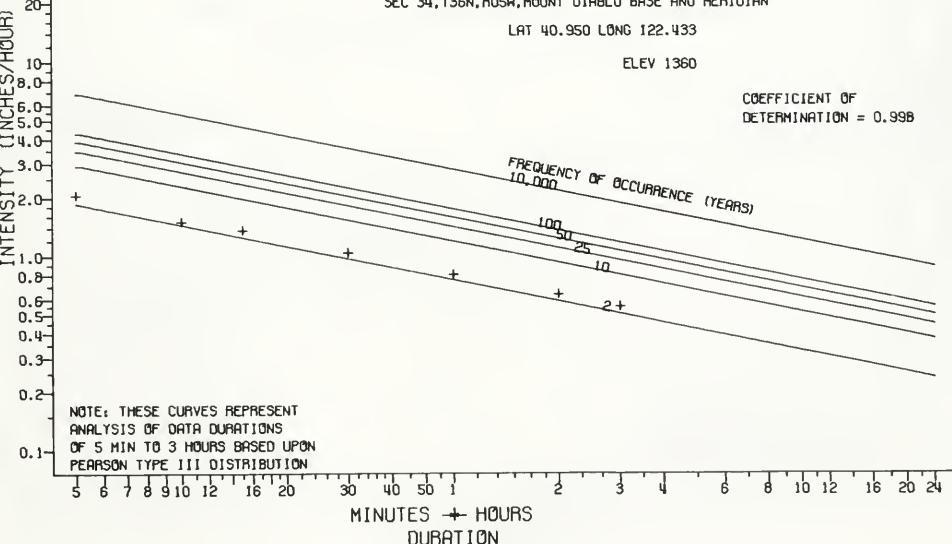
COEFFICIENT OF
 DETERMINATION = 0.999

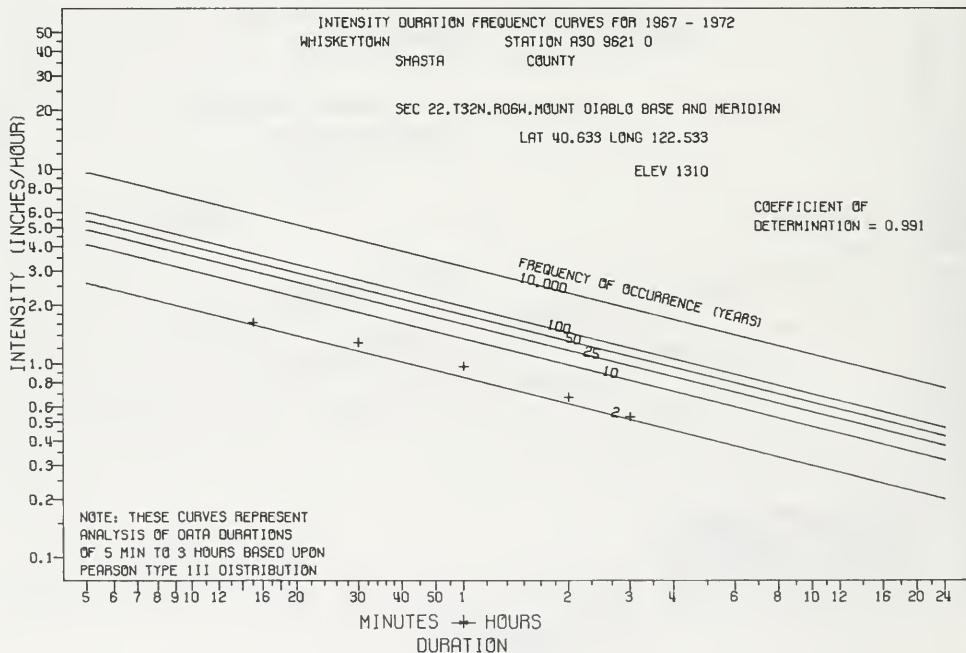
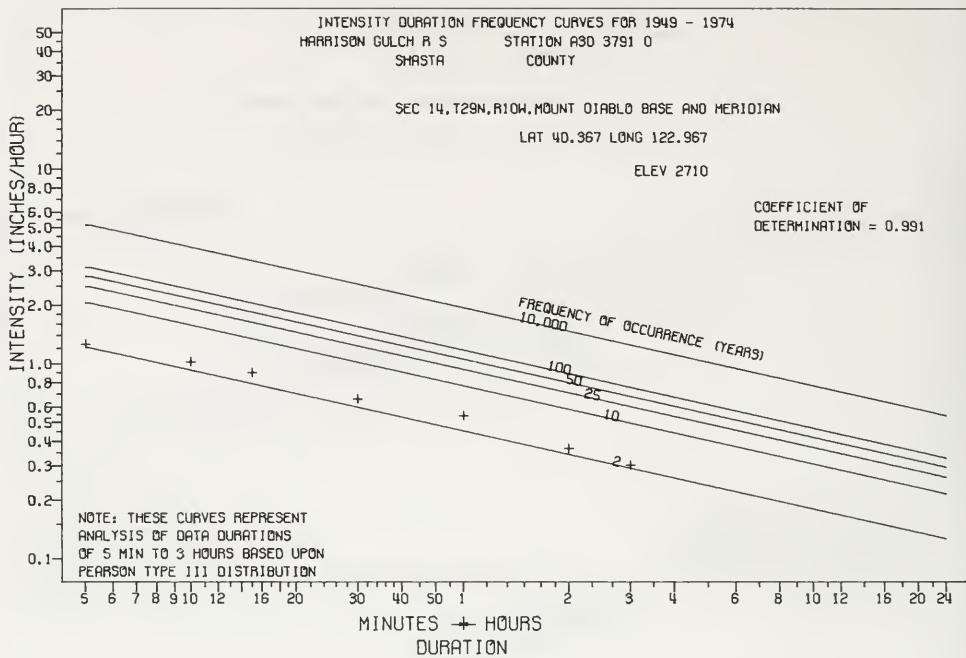


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 VOLLMERS STATION A20 9386 0
 SHASTA COUNTY

SEC 34, T36N, R05W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.950 LONG 122.433
 ELEV 1360

COEFFICIENT OF
 DETERMINATION = 0.998



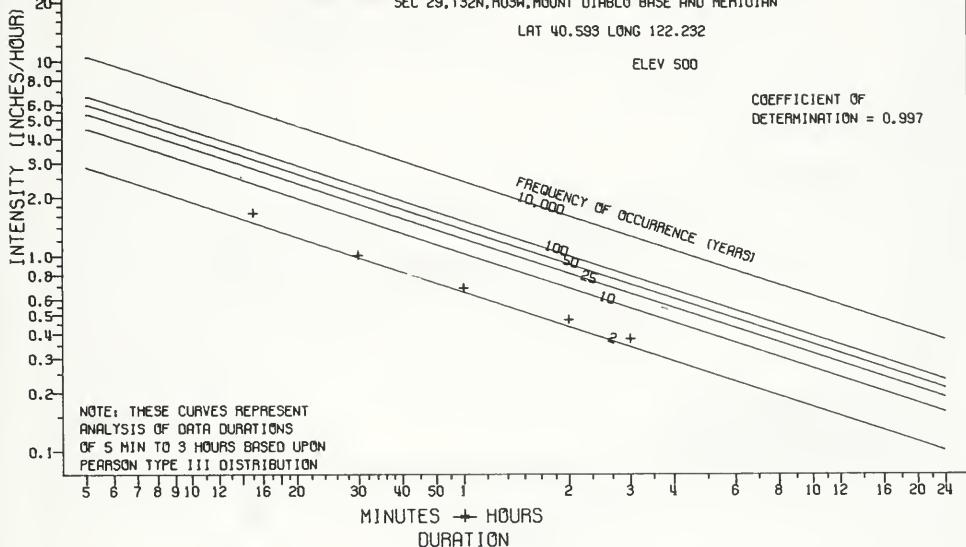


INTENSITY DURATION FREQUENCY CURVES FOR 1969 - 1973
 PALO CEDRO 2 N STATION AVO 6647 S
 SHASTA COUNTY

SEC 29, T32N, R03W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.593 LONG 122.232

ELEV 500

COEFFICIENT OF DETERMINATION = 0.997

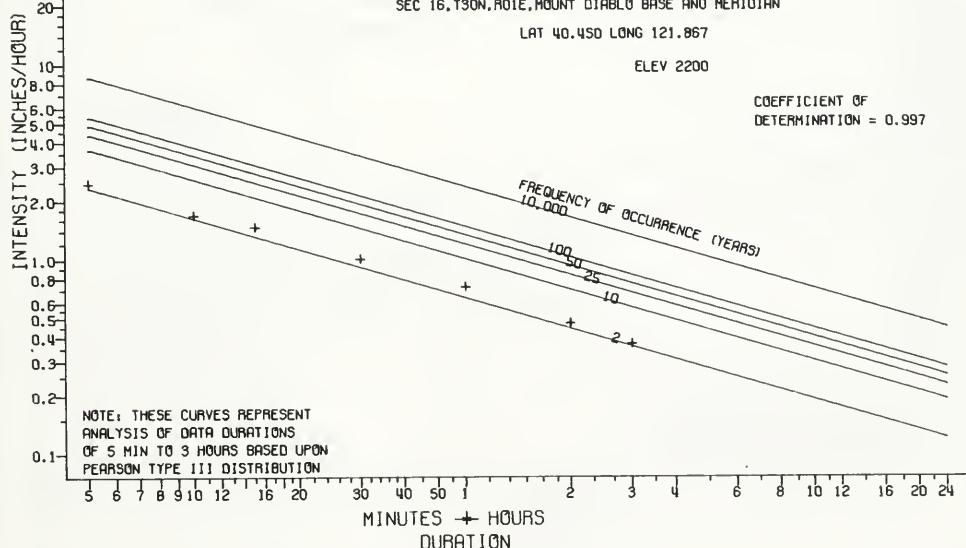


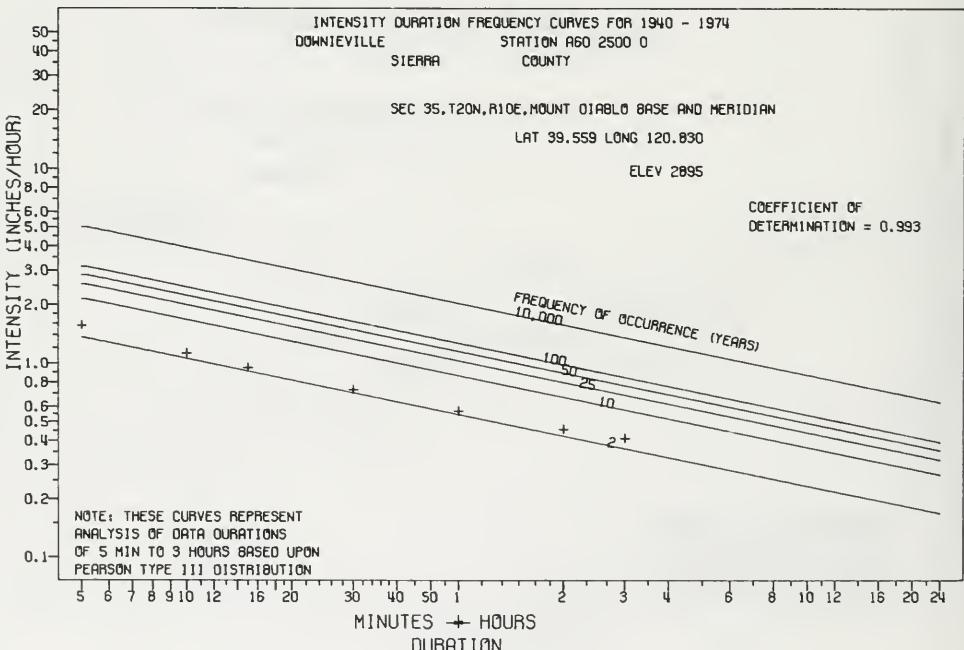
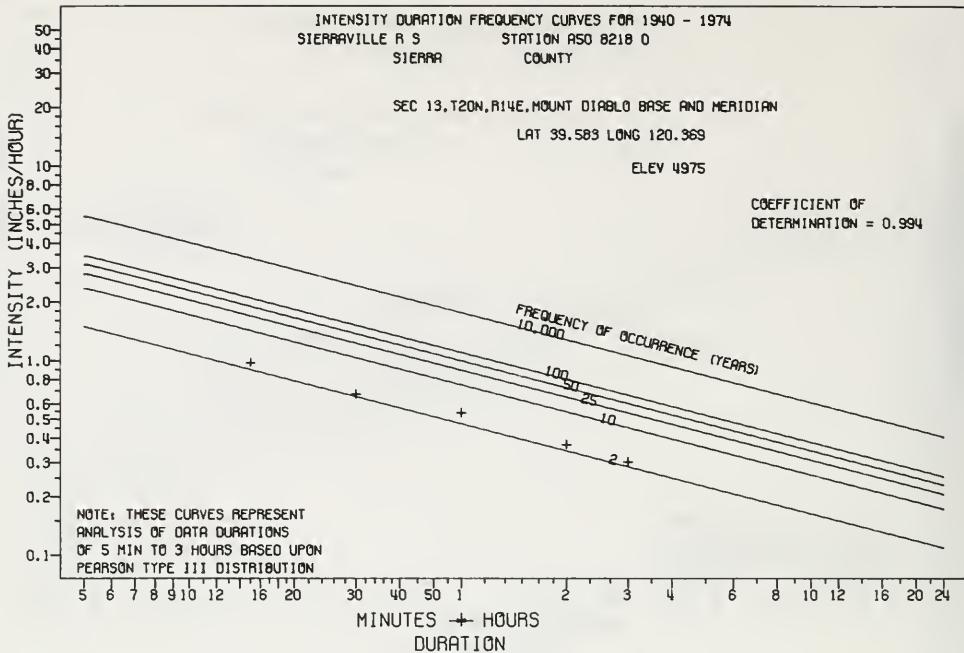
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 VOLTA POWER HOUSE STATION AVO 9390 0
 SHASTA COUNTY

SEC 16, T30N, R01E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.450 LONG 121.867

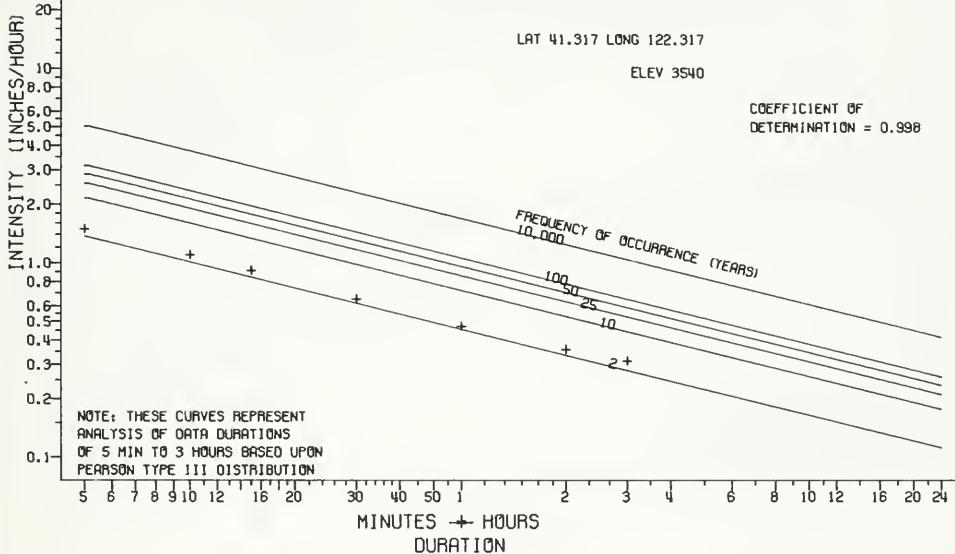
ELEV 2200

COEFFICIENT OF DETERMINATION = 0.997

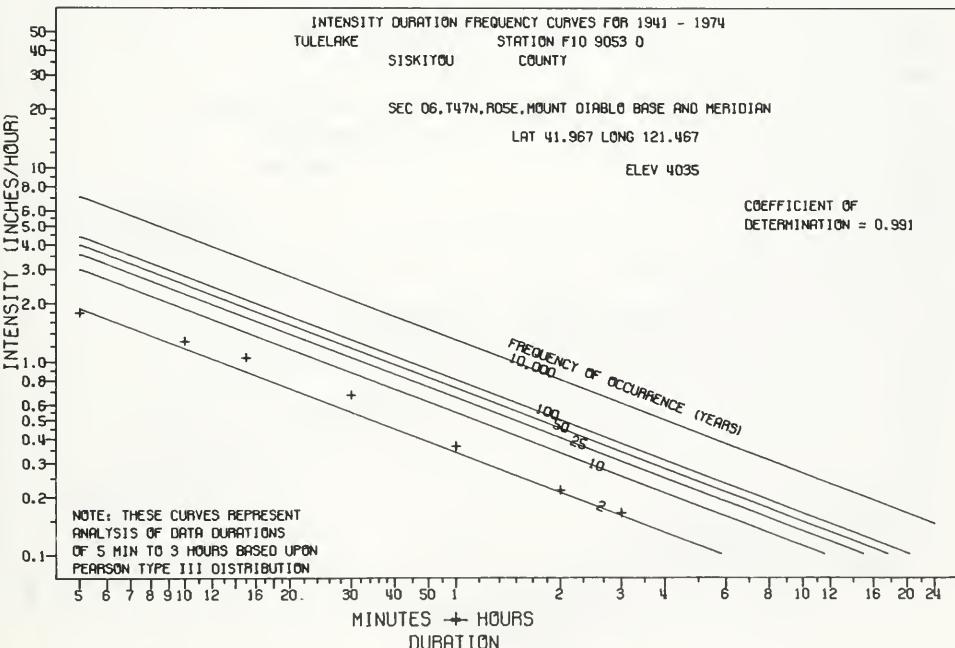


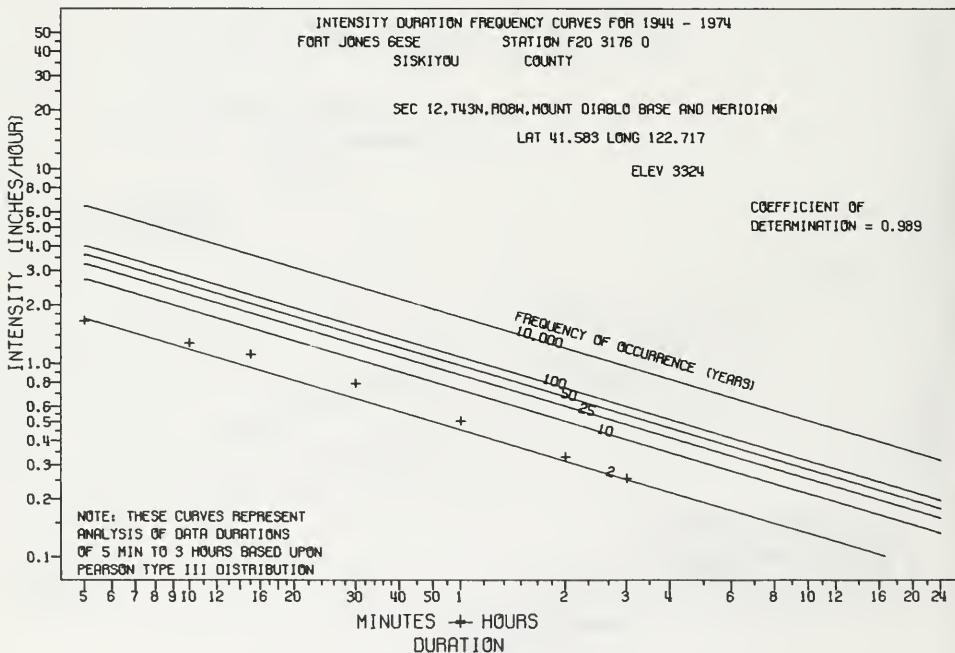
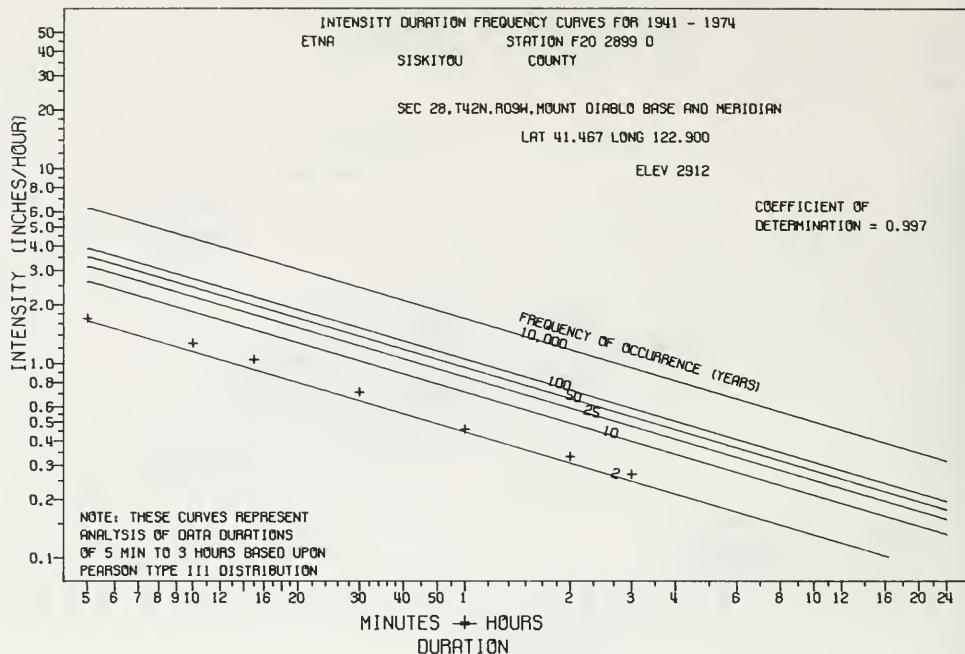


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1975
 MOUNT SHASTA CITY N W S STATION A20 5983 0
 SISKIYOU COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 TULELAKE STATION F10 9053 0
 SISKIYOU COUNTY
 SEC 06, T47N, ROSE, MOUNT DIABLO BASE AND MERIDIAN
 LAT 41.967 LONG 121.467
 ELEV 4035





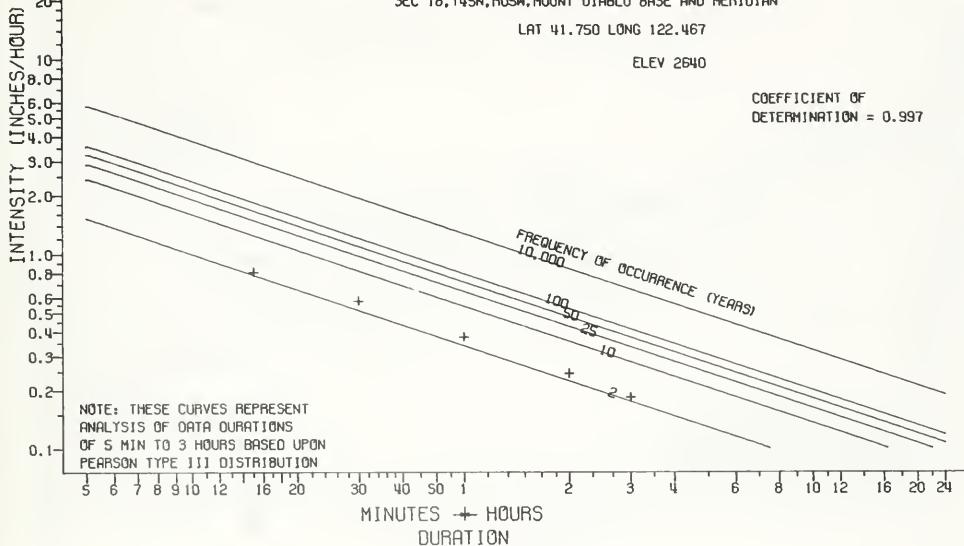
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 MONTAUGUE 3NE STATION F20 5785 0
 SISKIYOU COUNTY

SEC 18, T4SN, R0SW, MOUNT DIABLO BASE AND MERIDIAN

LAT 41.750 LONG 122.467

ELEV 2640

COEFFICIENT OF
 DETERMINATION = 0.997



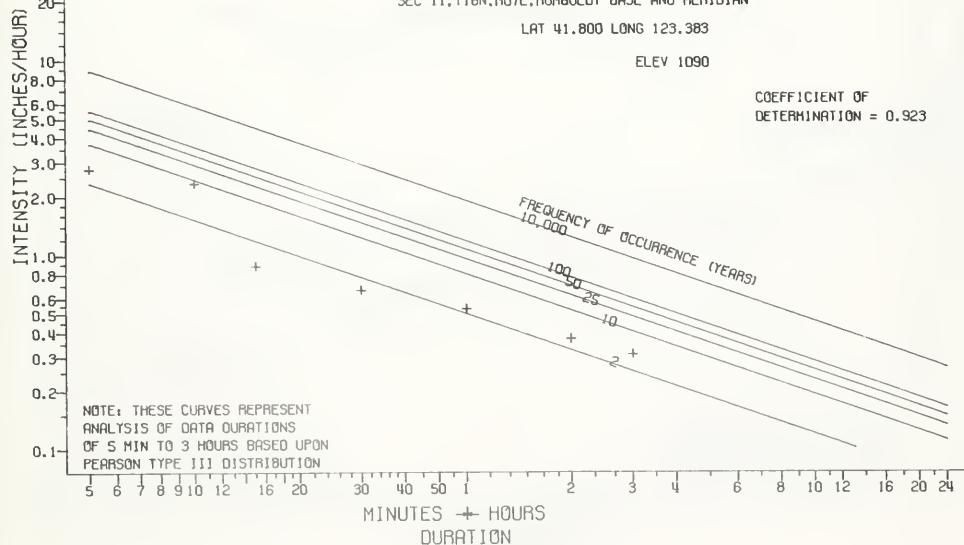
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 HAPPY CAMP R S STATION F30 3761 0
 SISKIYOU COUNTY

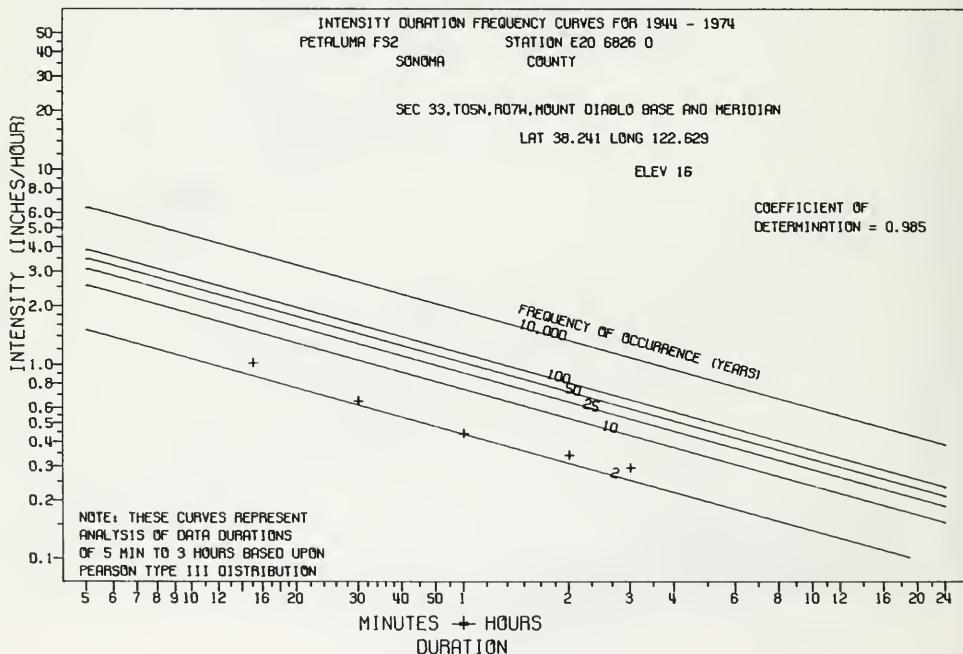
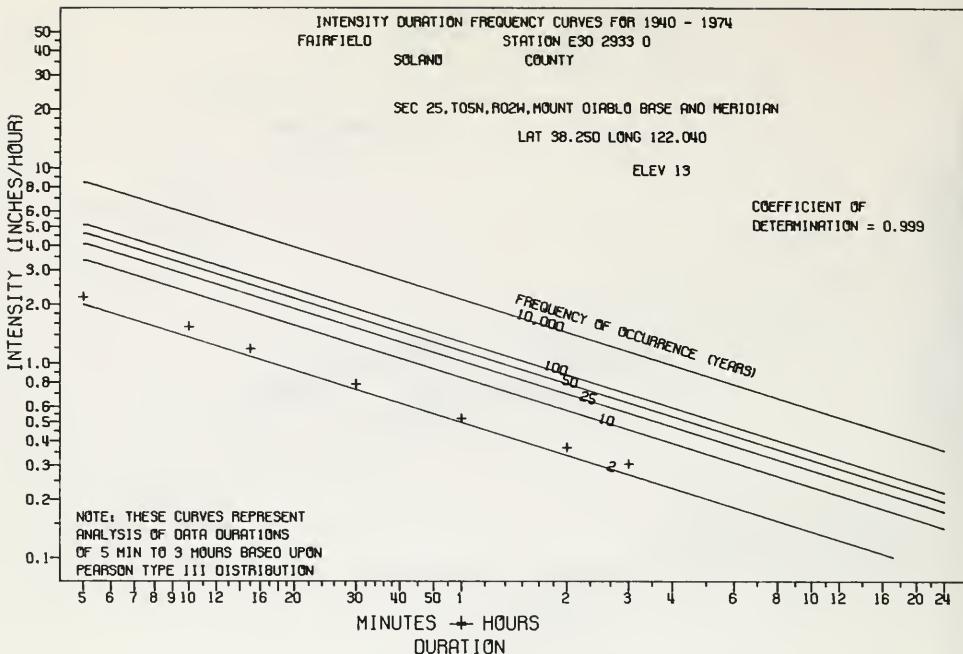
SEC 11, T16N, R07E, HUMBOLDT BASE AND MERIDIAN

LAT 41.800 LONG 123.383

ELEV 1090

COEFFICIENT OF DETERMINATION = 0.923



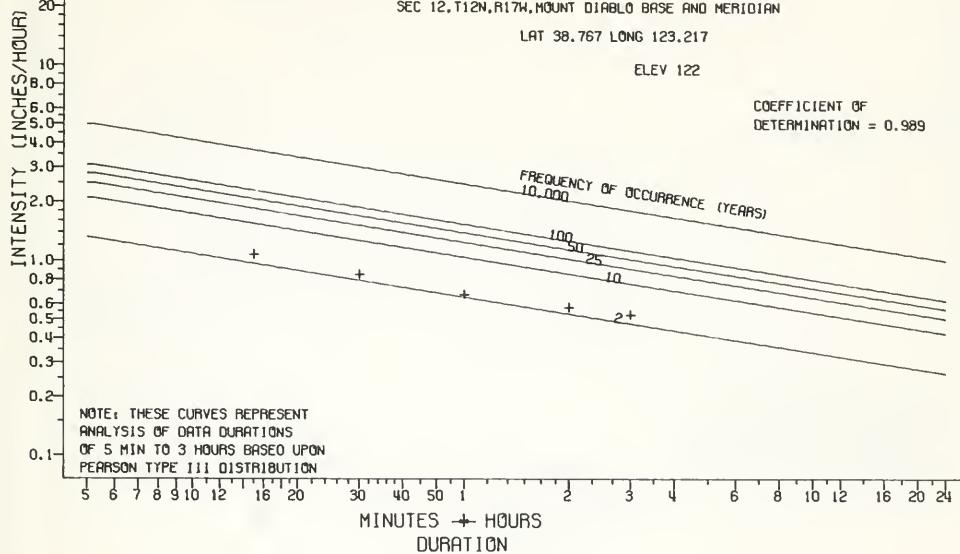


INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1971
CLOVERDALE 11W STATION F90 1840 0
SONOMA COUNTY

SEC 12, T12N, R17W, MOUNT DIABLO BASE AND MERIDIAN
LAT 38.767 LONG 123.217

ELEV 122

COEFFICIENT OF
DETERMINATION = 0.989

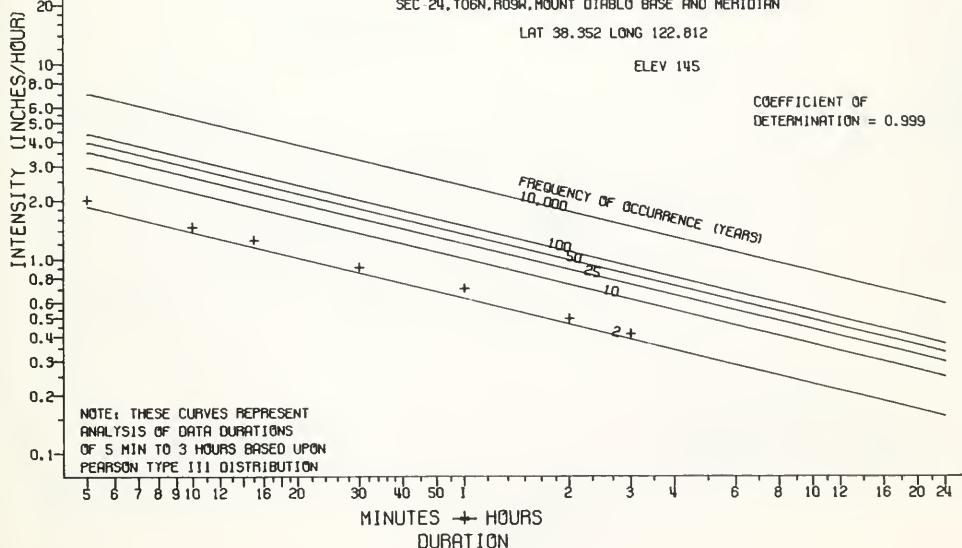


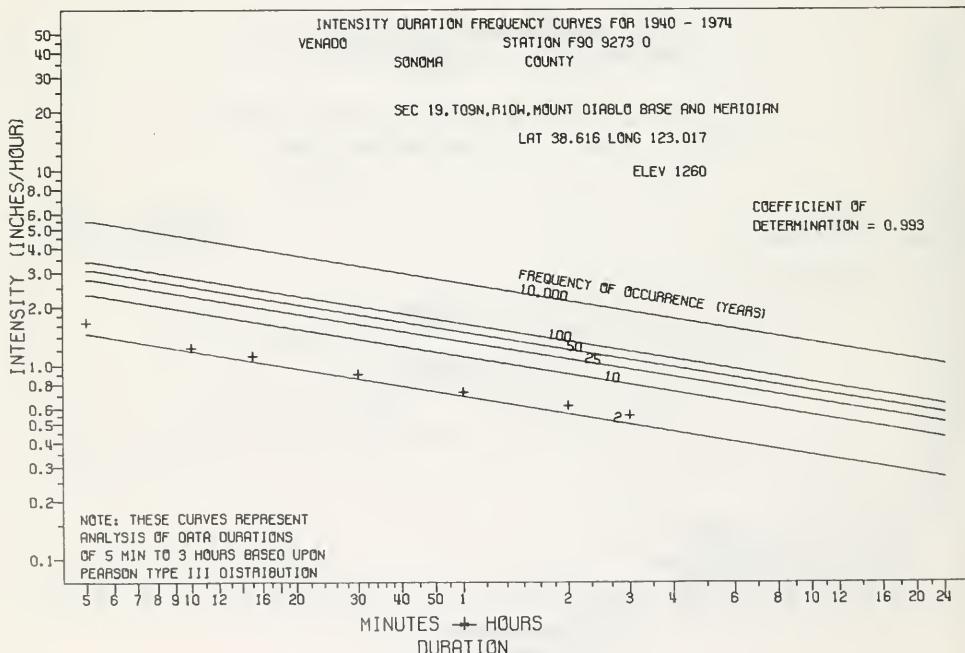
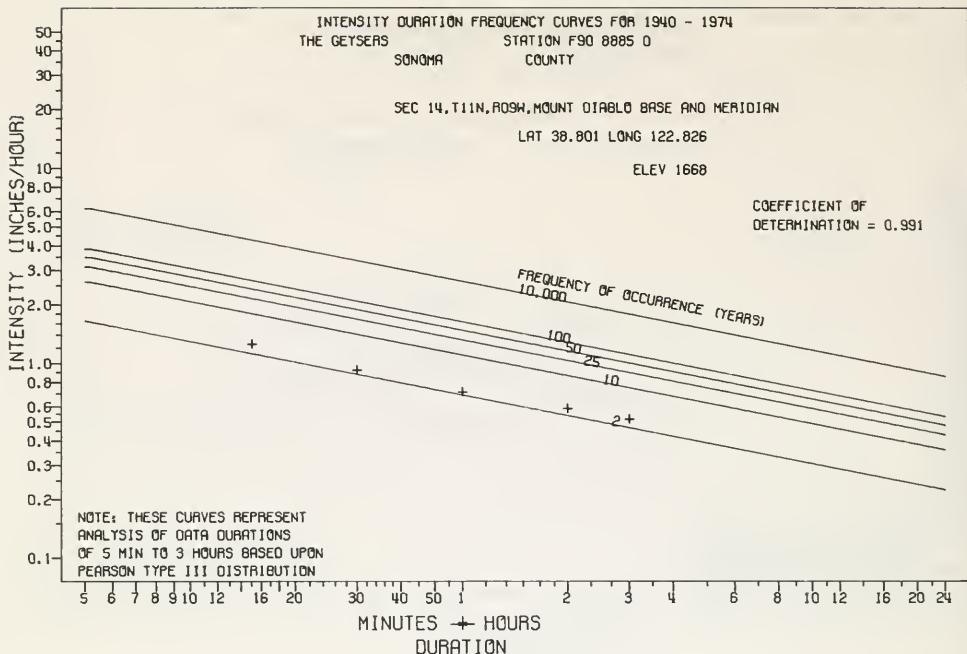
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1972
SEBASTOPOL STATION F90 8072 0
SONOMA COUNTY

SEC 24, T06N, R09W, MOUNT DIABLO BASE AND MERIDIAN
LAT 38.352 LONG 122.812

ELEV 145

COEFFICIENT OF
DETERMINATION = 0.999



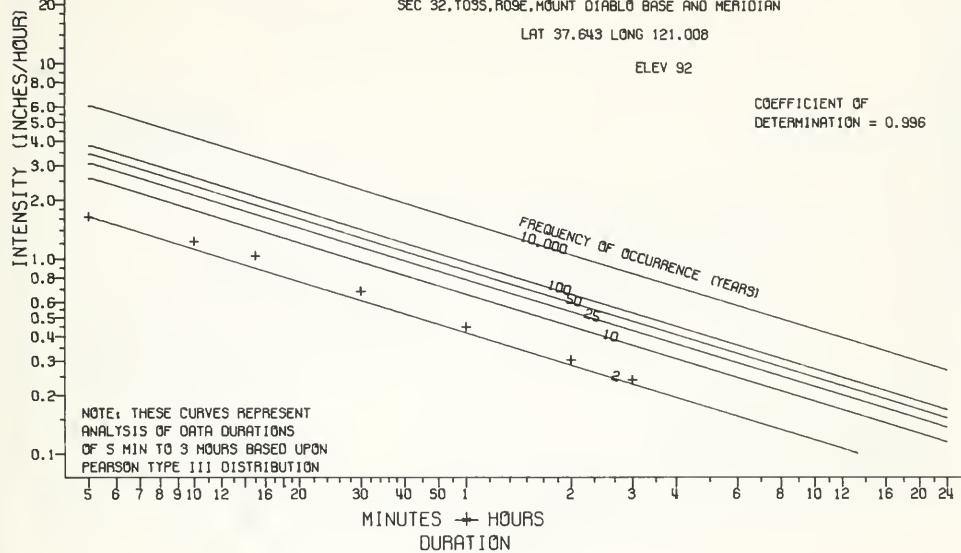


INTENSITY DURATION FREQUENCY CURVES FOR 1942 - 1974
 MOONSTO STATION 800 5741 0
 STANISLAUS COUNTY

SEC 32, T03S, R09E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.643 LONG 121.008

ELEV 92

COEFFICIENT OF
 DETERMINATION = 0.996

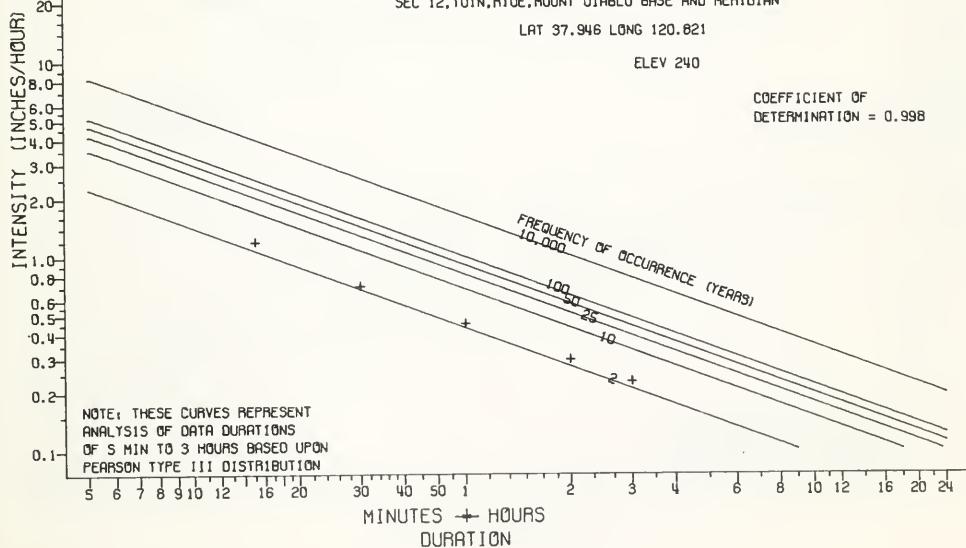


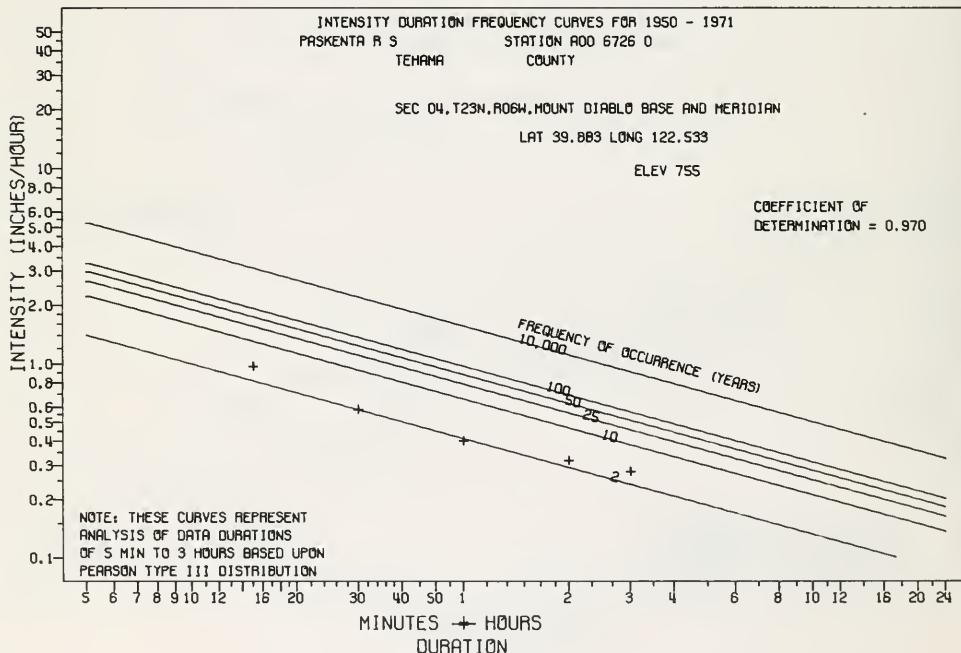
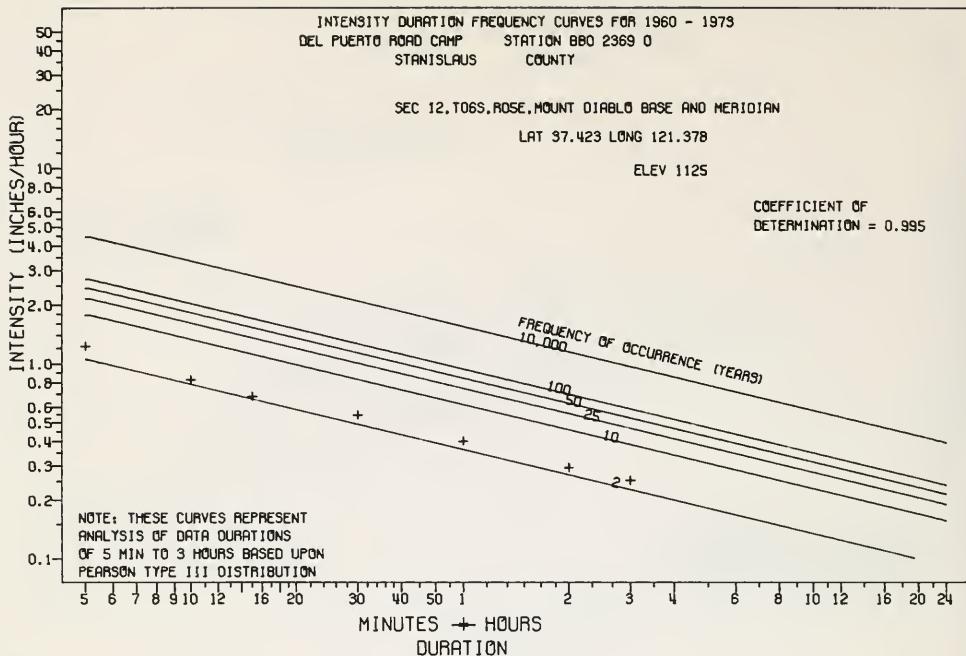
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1974
 SNOW RANCH USCE STATION 800 8322 0
 STANISLAUS COUNTY

SEC 12, T01N, R10E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 37.946 LONG 120.821

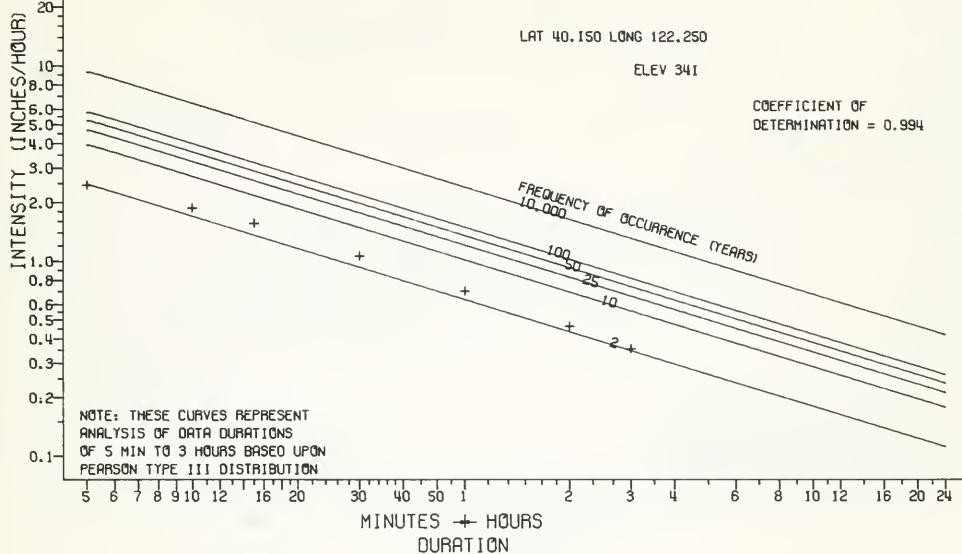
ELEV 240

COEFFICIENT OF
 DETERMINATION = 0.998

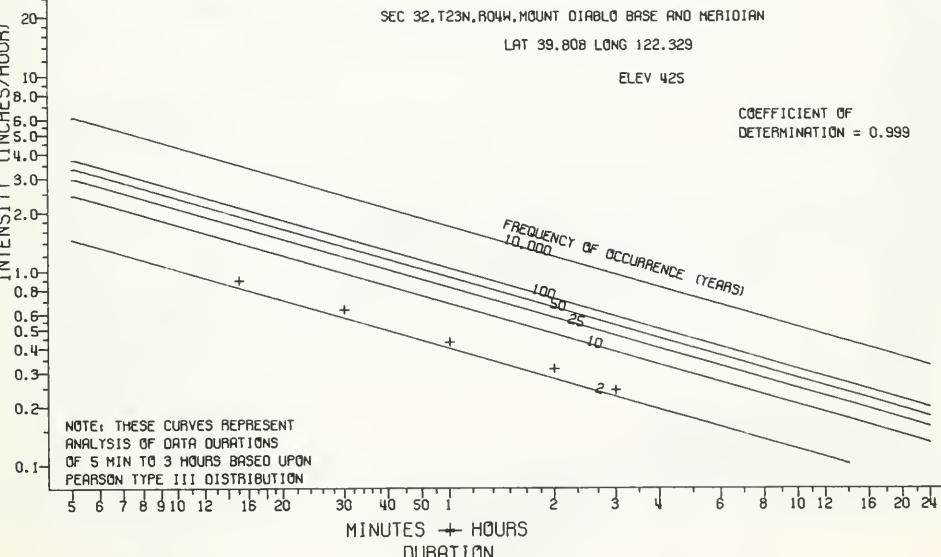


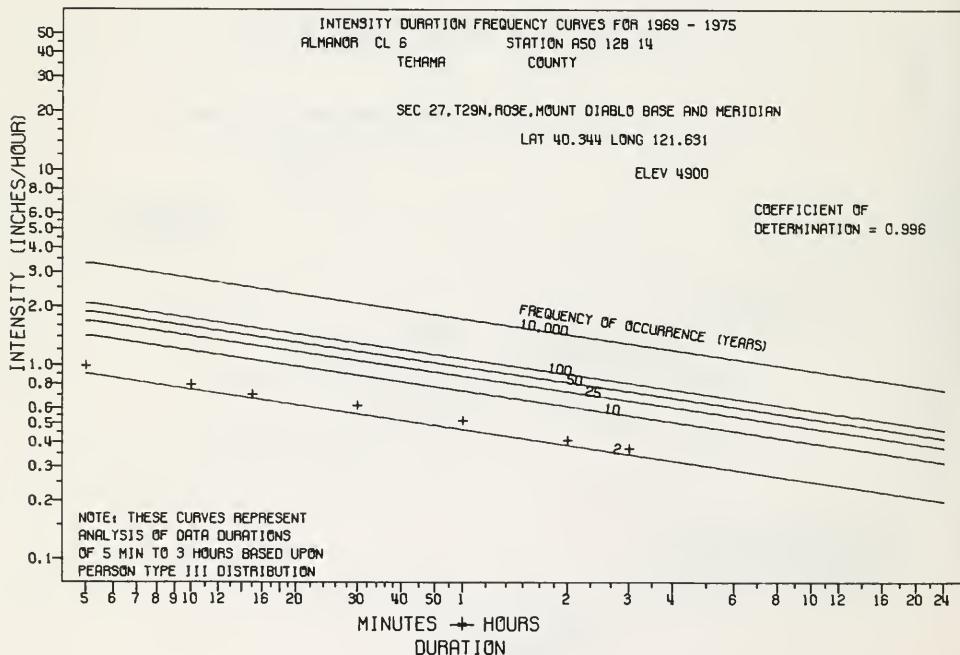
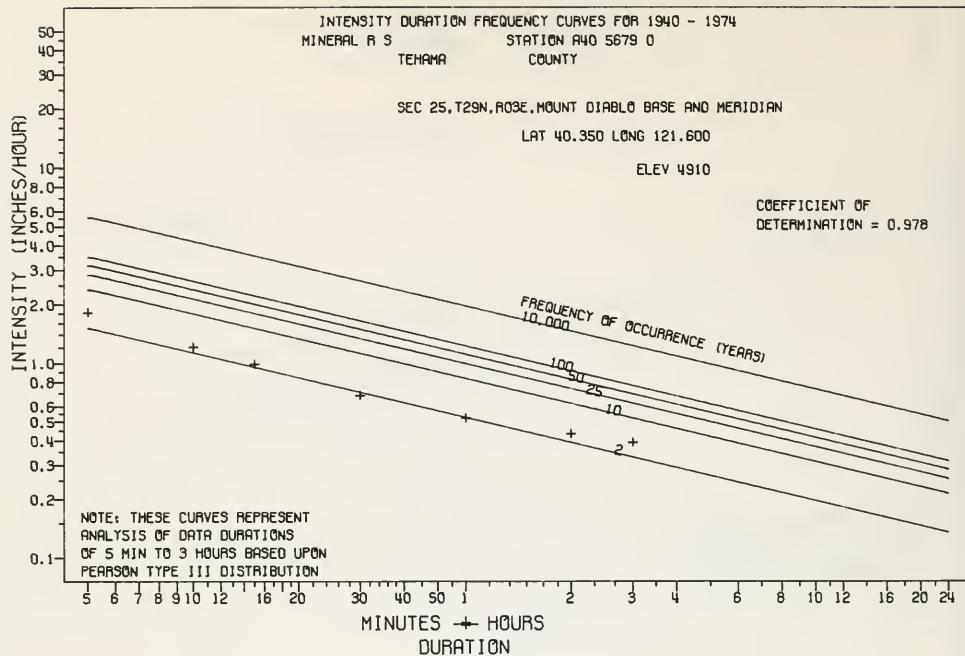


INTENSITY DURATION FREQUENCY CURVES FOR 1906 - 1975
 RED BLUFF AIR PORT NWS STATION A30 7292 0
 TEHAMA COUNTY

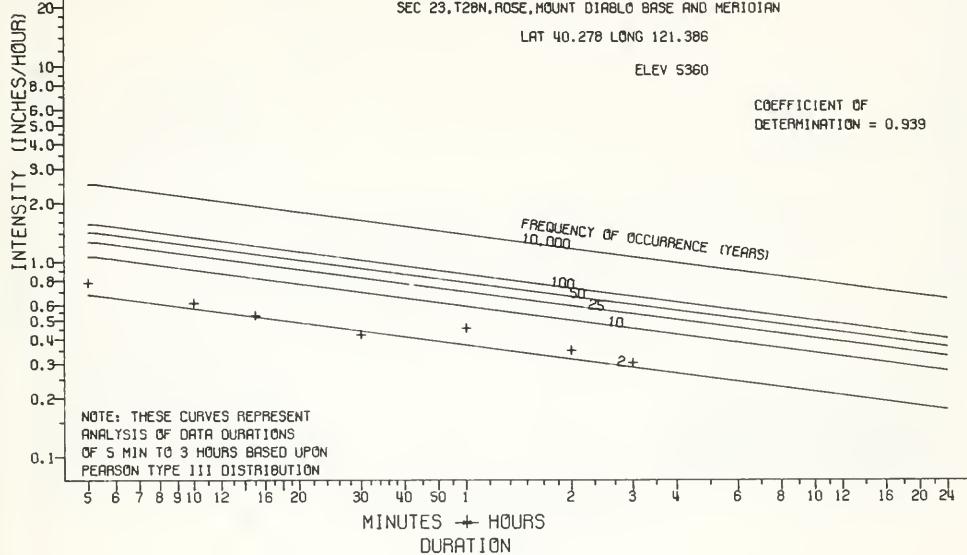


INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1974
 BLACK BUTTE DAM STATION A30 840 11
 TEHAMA COUNTY

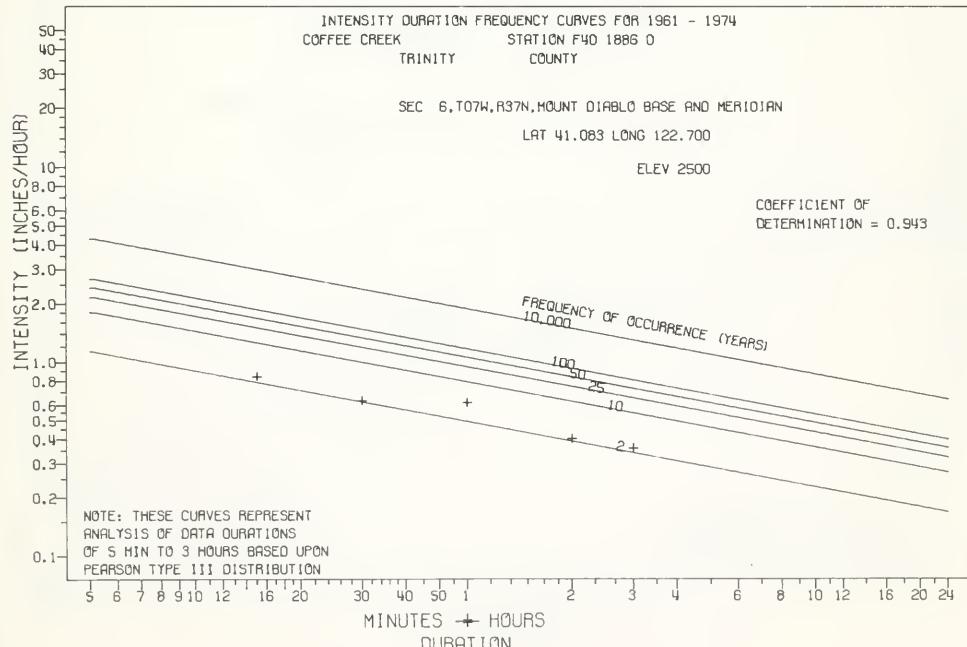


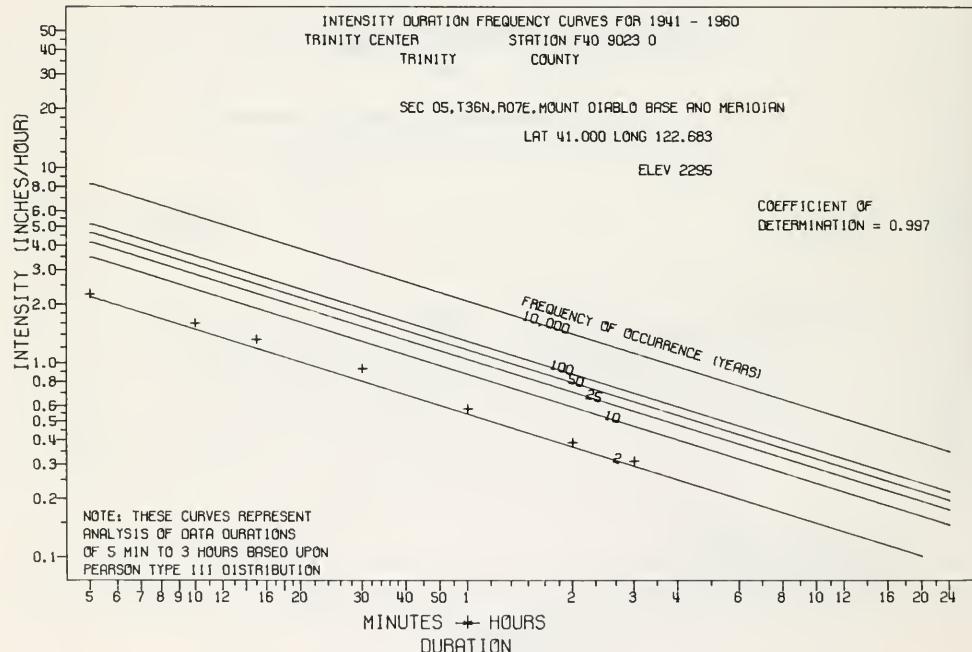
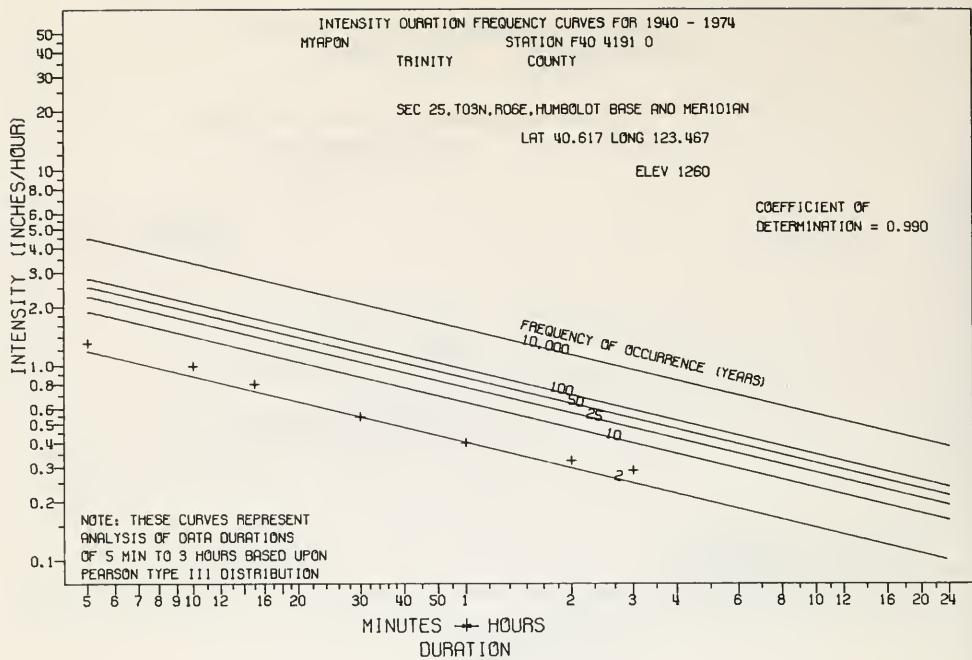


INTENSITY DURATION FREQUENCY CURVES FOR 1962 - 1975
 ALMANOR FR 1 STATION ASO 128 18
 TEHAMA COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1961 - 1974
 COFFEE CREEK STATION F40 1886 0
 TRINITY COUNTY



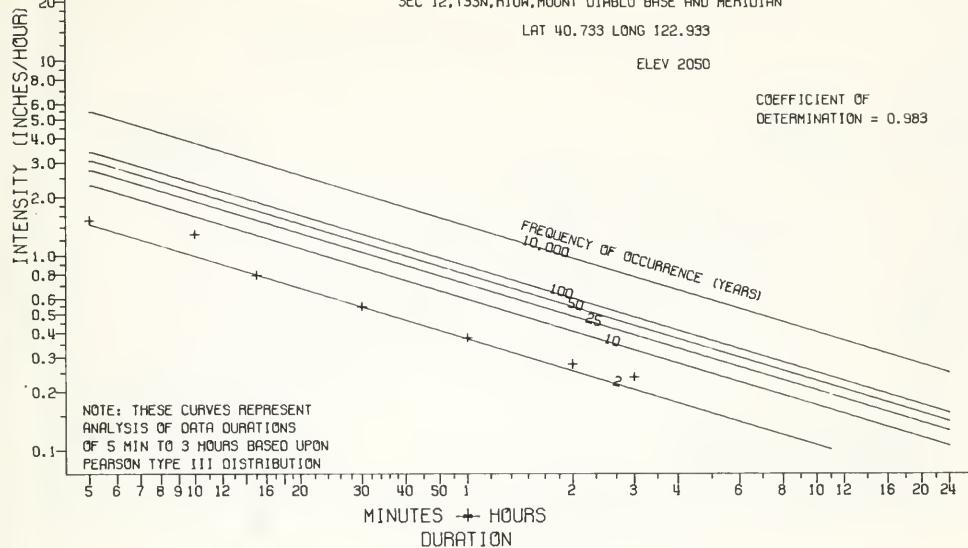


INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 WEAVERVILLE STATION F40 9490 0
 TRINITY COUNTY

SEC 12, T33N, R10W, MOUNT DIABLO BASE AND MERIDIAN
 LAT 40.733 LONG 122.933

ELEV 2050

COEFFICIENT OF
 DETERMINATION = 0.983

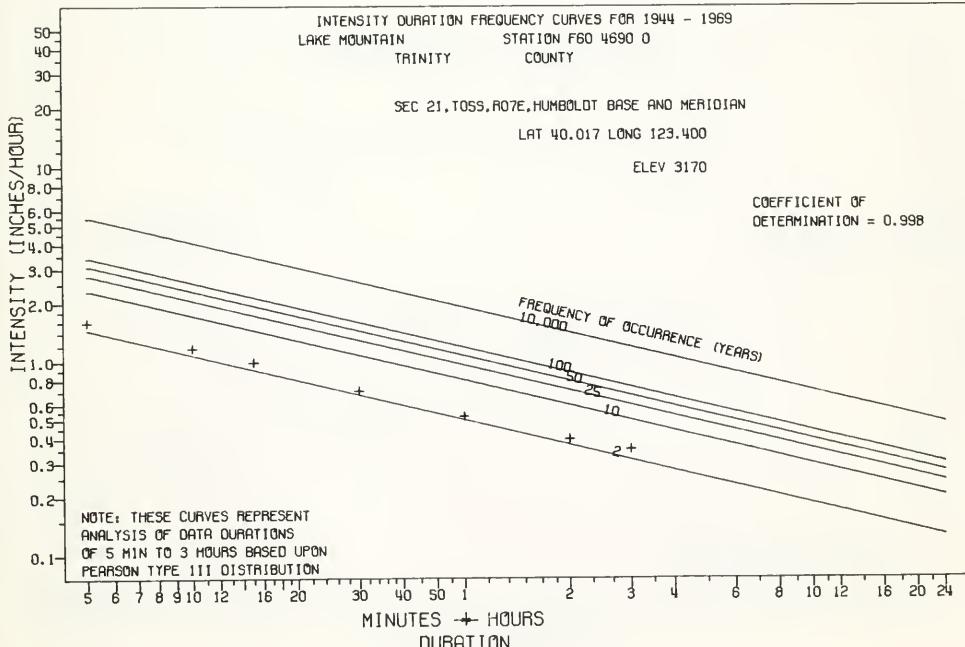


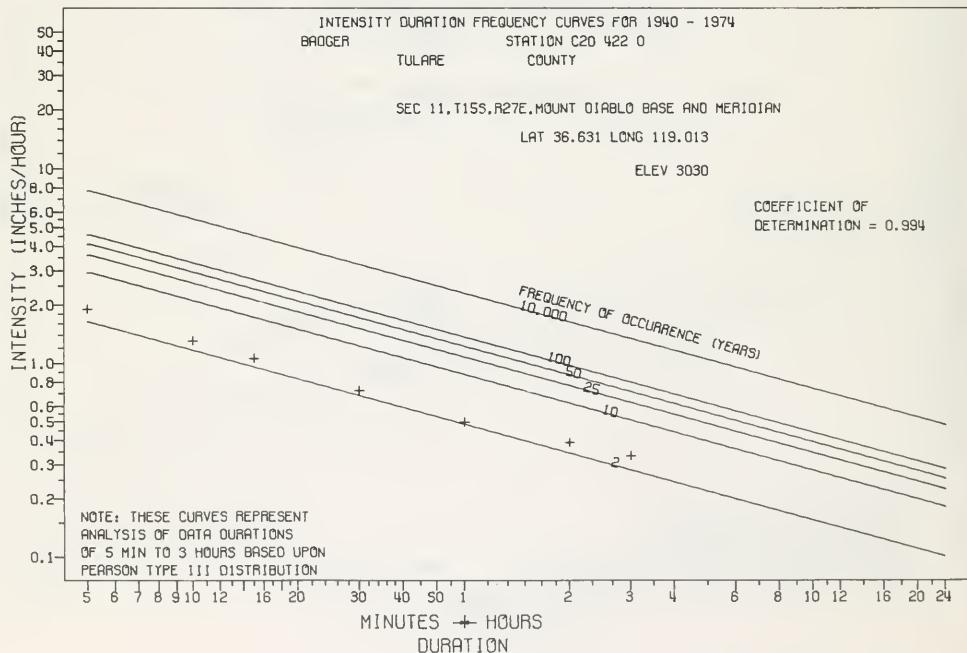
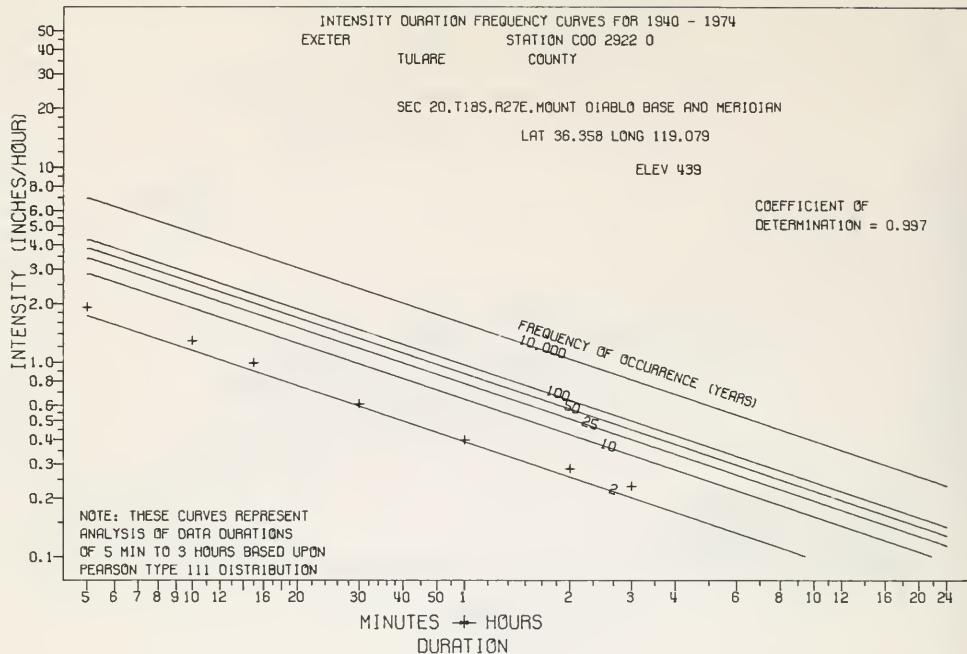
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1969
 LAKE MOUNTAIN STATION F60 4690 0
 TRINITY COUNTY

SEC 21, T05S, R07E, HUMBOLDT BASE AND MERIDIAN
 LAT 40.017 LONG 123.400

ELEV 3170

COEFFICIENT OF
 DETERMINATION = 0.998



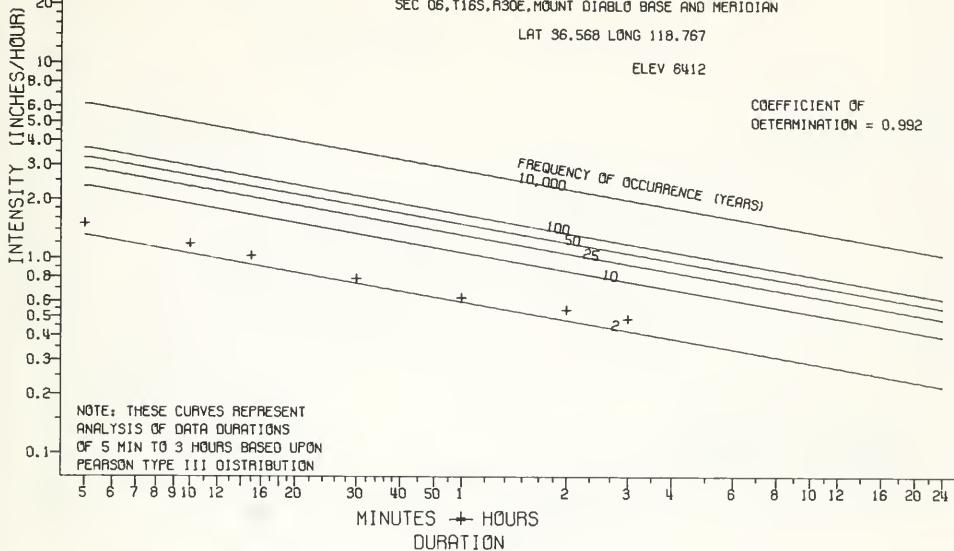


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1968
 GIANT FOREST STATION C20 3397 0
 TULARE COUNTY

SEC 06, T16S, R30E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 36.568 LONG 118.767

ELEV 6412

COEFFICIENT OF
 DETERMINATION = 0.992

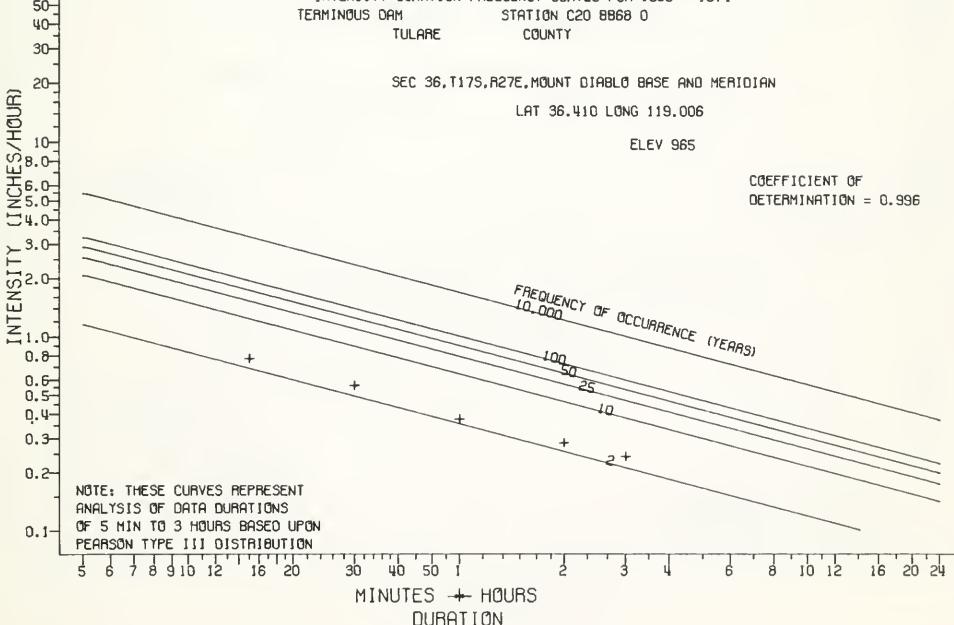


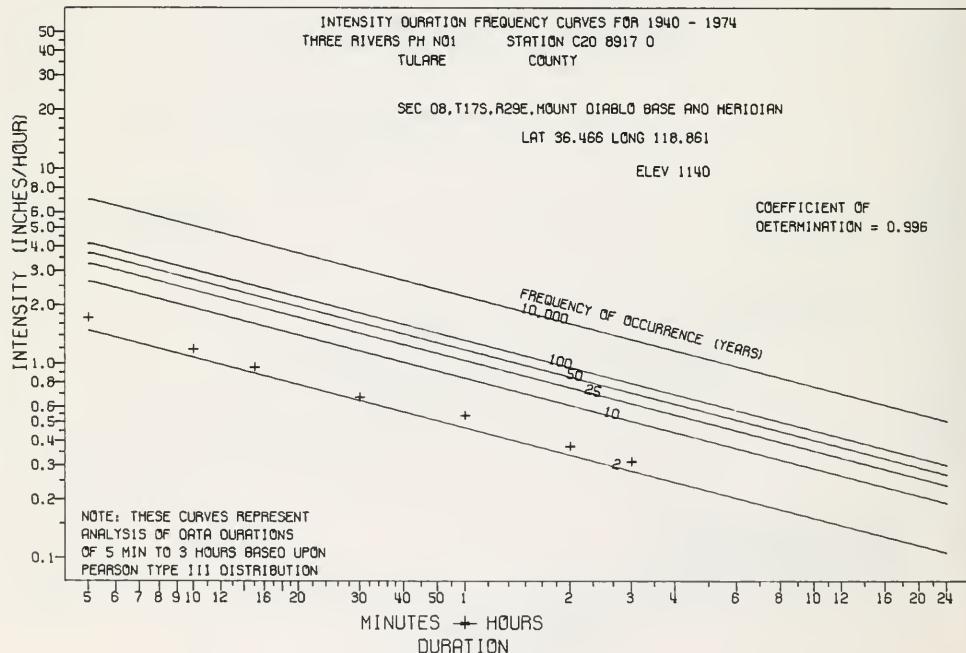
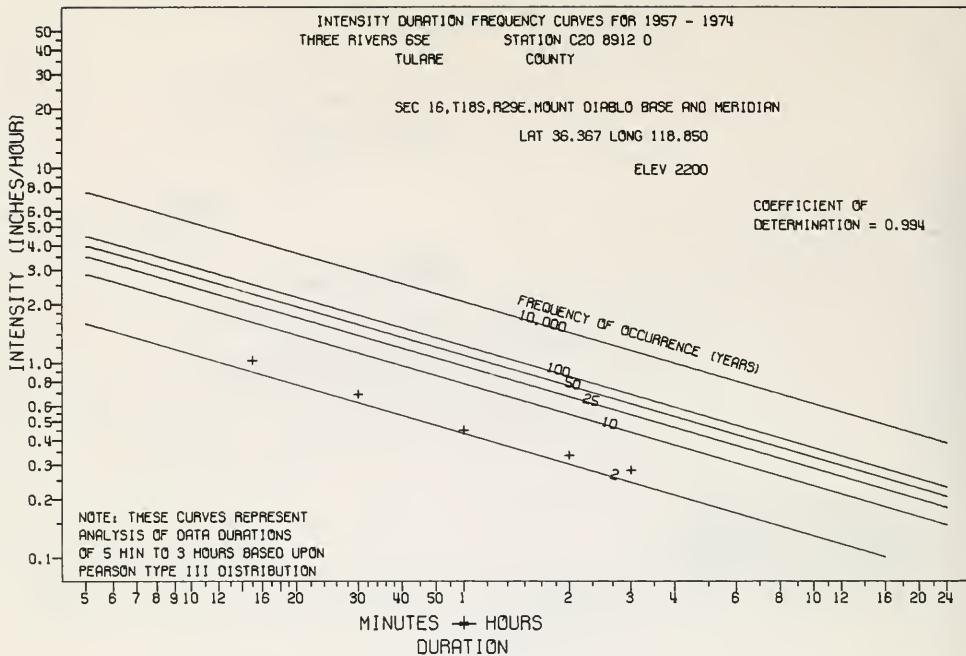
INTENSITY DURATION FREQUENCY CURVES FOR 1963 - 1974
 TERMINUS DAM STATION C20 8868 0
 TULARE COUNTY

SEC 36, T17S, R27E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 36.410 LONG 119.006

ELEV 965

COEFFICIENT OF
 DETERMINATION = 0.996





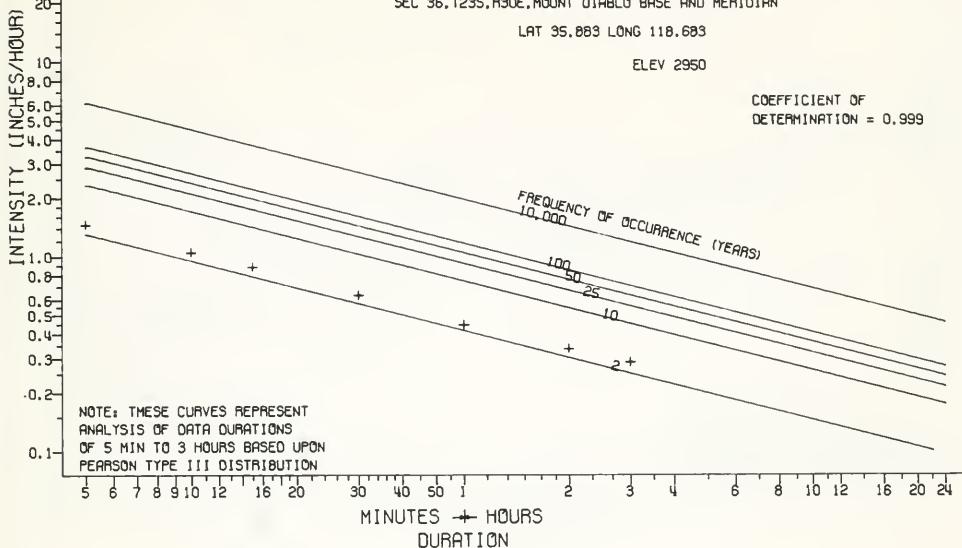
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1964
 CALIFORNIA HOT SP STATION C30 1300 0
 TULARE COUNTY

SEC 36, T23S, R90E, MOUNT DIABLO BASE AND MERIDIAN

LAT 35.883 LONG 118.683

ELEV 2950

COEFFICIENT OF
 DETERMINATION = 0.999



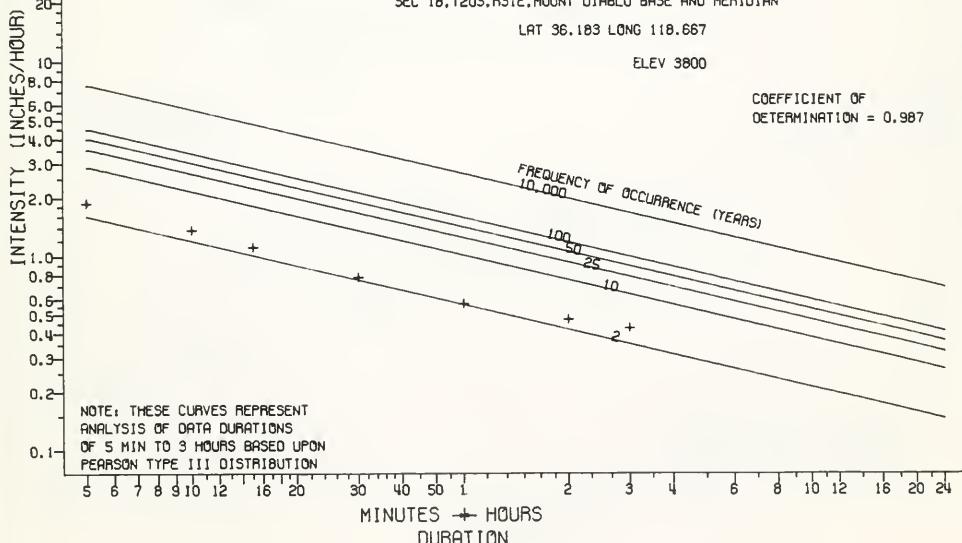
INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1960
 CAMP WISHLON STATION C30 1470 0
 TULARE COUNTY

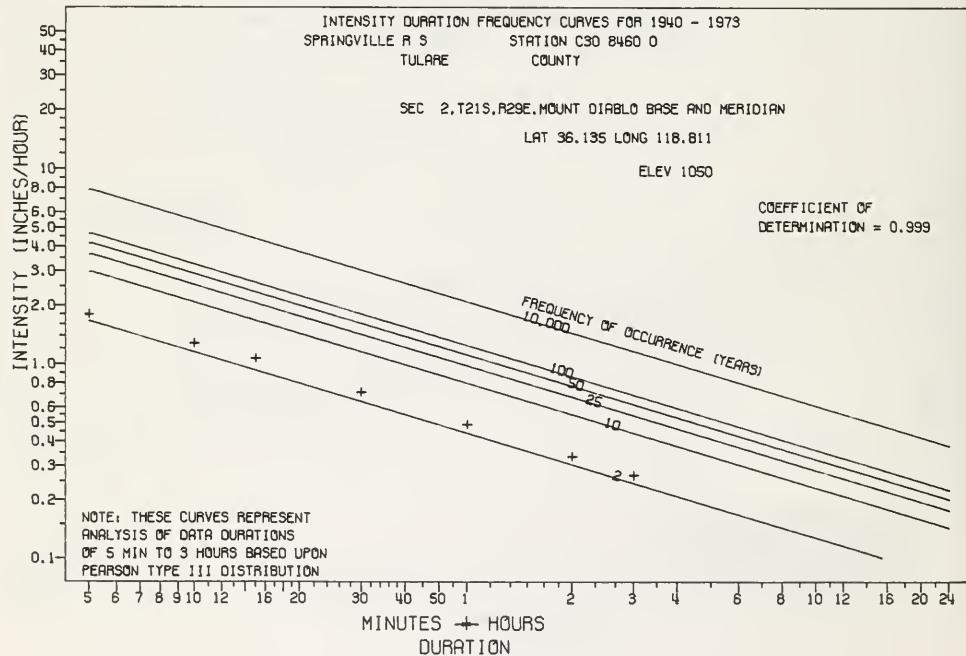
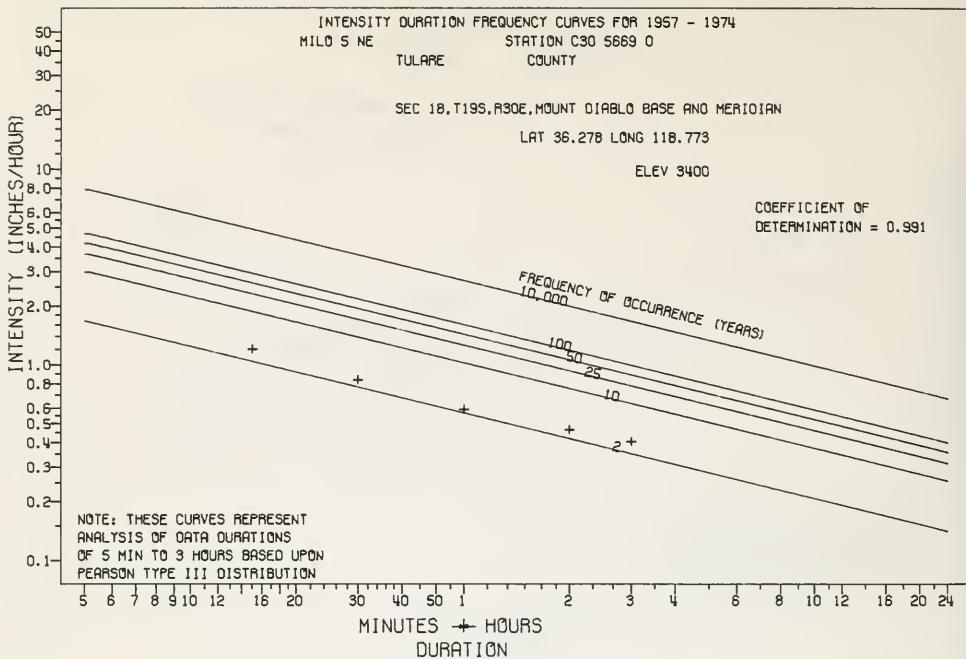
SEC 18, T20S, R31E, MOUNT DIABLO BASE AND MERIDIAN

LAT 36.183 LONG 118.667

ELEV 3800

COEFFICIENT OF
 DETERMINATION = 0.987



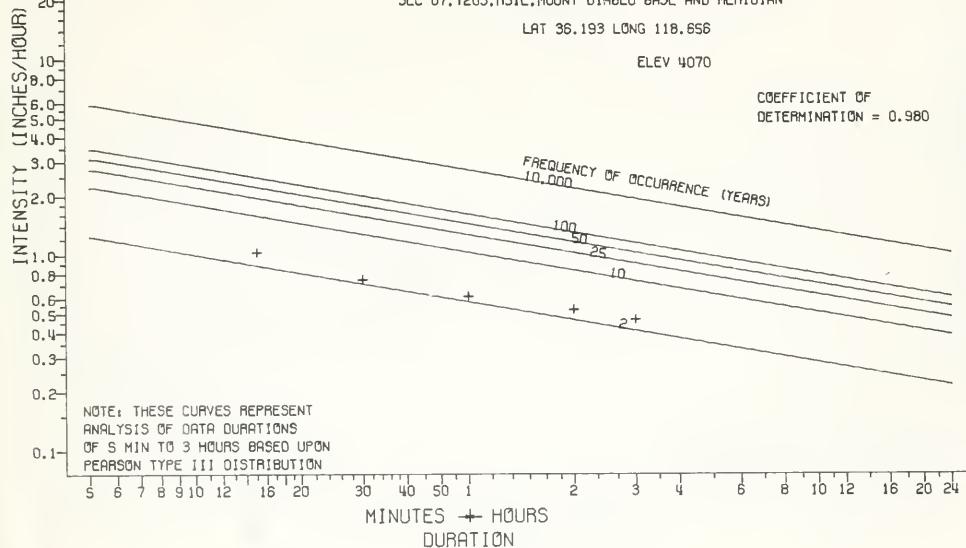


INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 SPRINGVILLE TULE HAWKS STATION C30 8463 0
 TULARE COUNTY

SEC 07, T20S, R31E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 36.193 LONG 118.656

ELEV 4070

COEFFICIENT OF
 DETERMINATION = 0.980

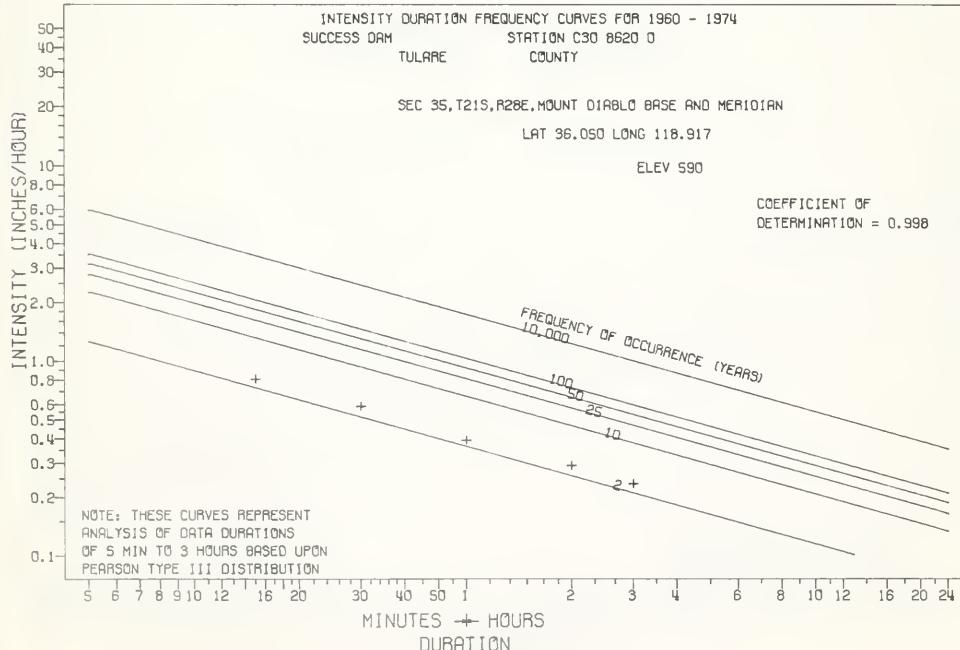


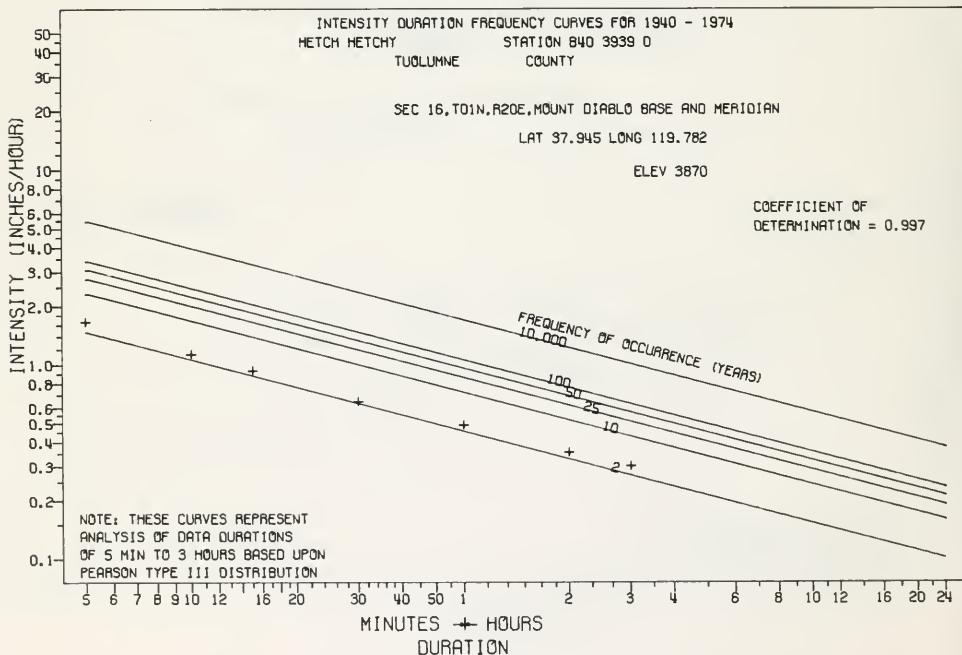
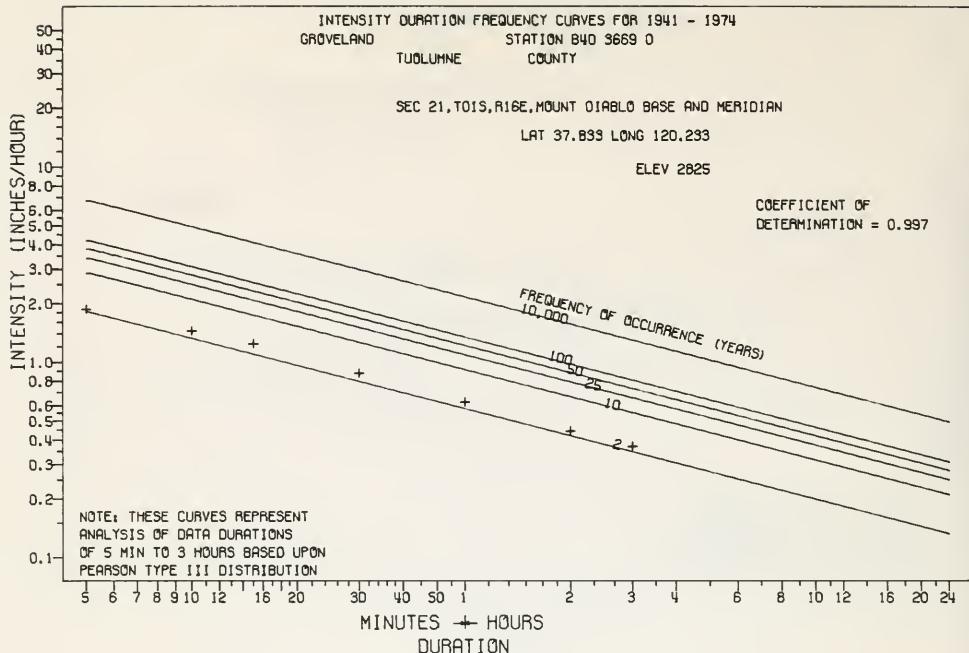
INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 SUCCESS DAM STATION C30 8620 0
 TULARE COUNTY

SEC 35, T21S, R28E, MOUNT DIABLO BASE AND MERIDIAN
 LAT 36.050 LONG 118.917

ELEV 590

COEFFICIENT OF DETERMINATION = 0.998





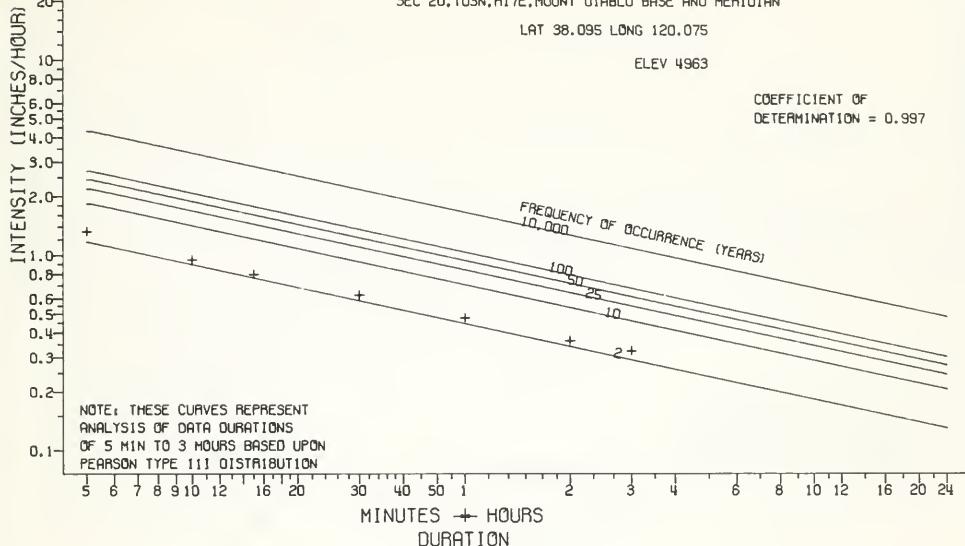
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1963
 LONG BARN EXP STA STATION B40 5077 0
 TUOLUMNE COUNTY

SEC 20, T03N, R17E, MOUNT DIABLO BASE AND MERIDIAN

LAT 38.095 LONG 120.075

ELEV 4963

COEFFICIENT OF
 DETERMINATION = 0.997



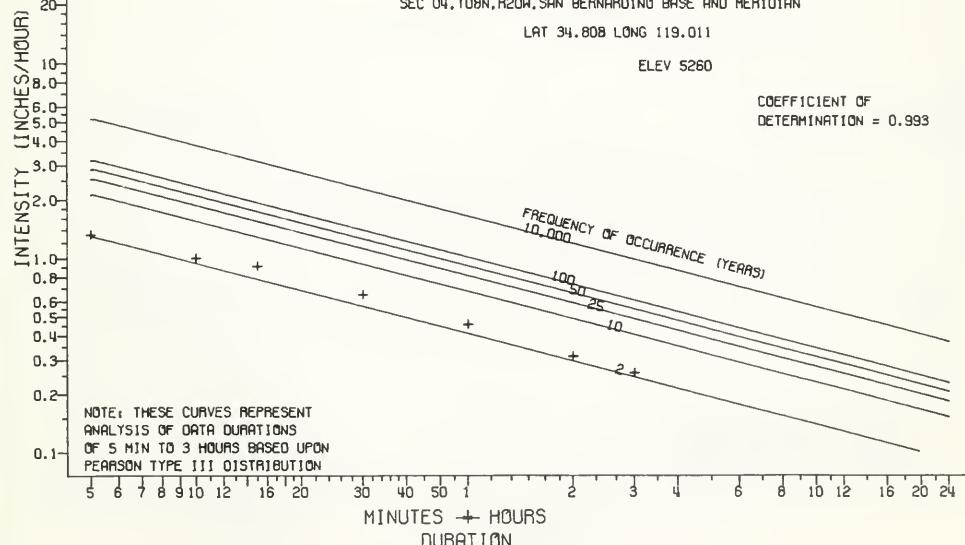
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1974
 CHUCHUPATE STATION C70 1754 0
 VENTURA COUNTY

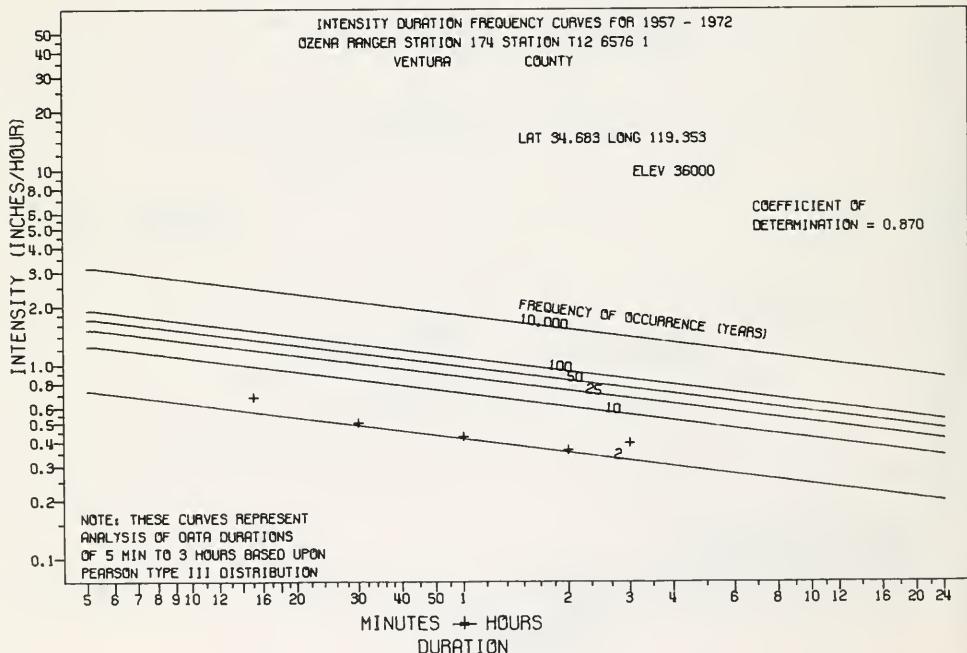
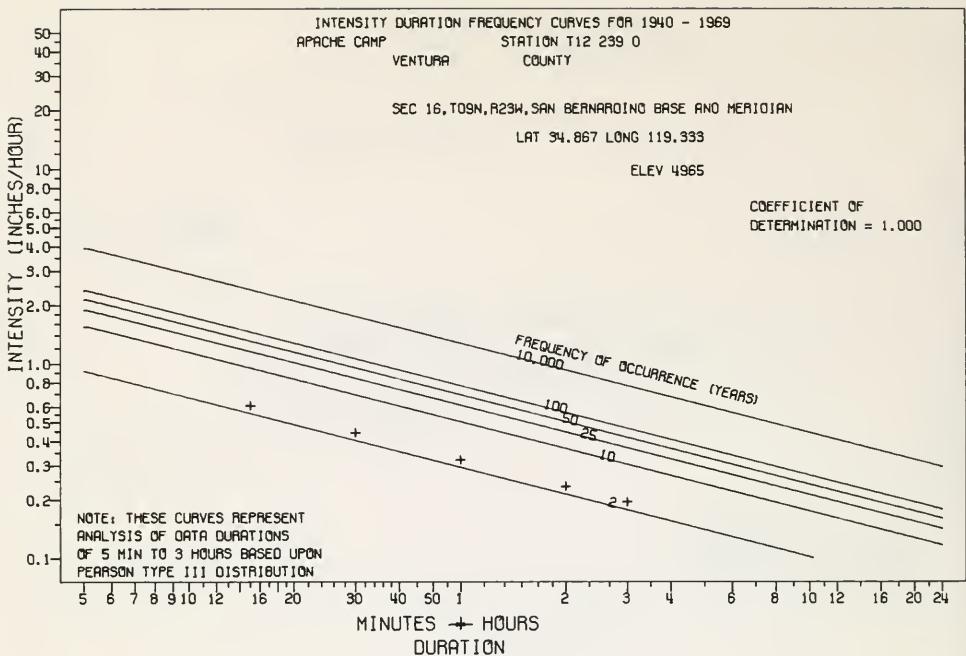
SEC 04, T08N, R20W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.808 LONG 119.011

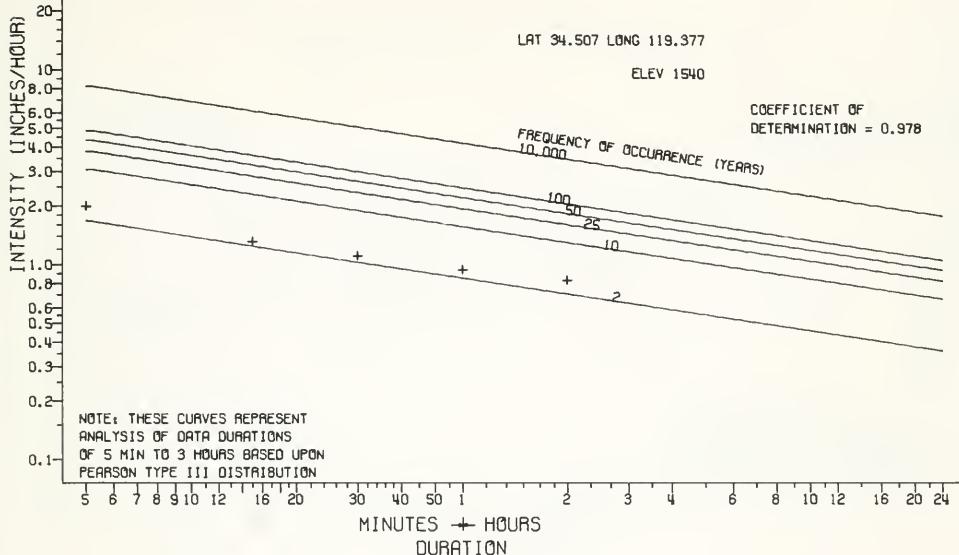
ELEV 5260

COEFFICIENT OF
 DETERMINATION = 0.993

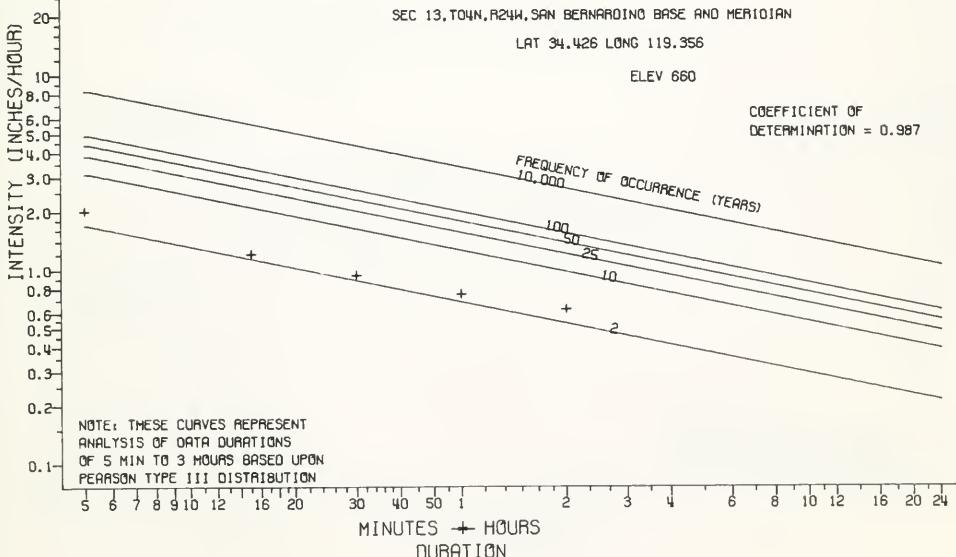




INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 MATILJA DAM STATION U02 5408 6
 VENTURA COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 SELBY RANCH STATION U02 5085 2
 VENTURA COUNTY

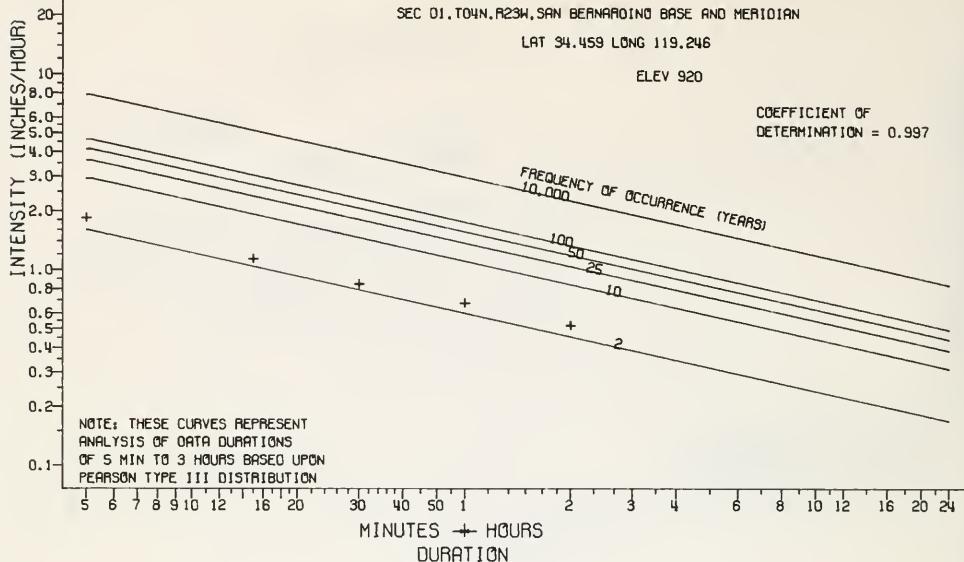


INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 STEWART CANYON 165STATION U02 B536 11
 VENTURA COUNTY

SEC 01, T04N, R23W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.459 LONG 119.246

ELEV 920

COEFFICIENT OF
 DETERMINATION = 0.997

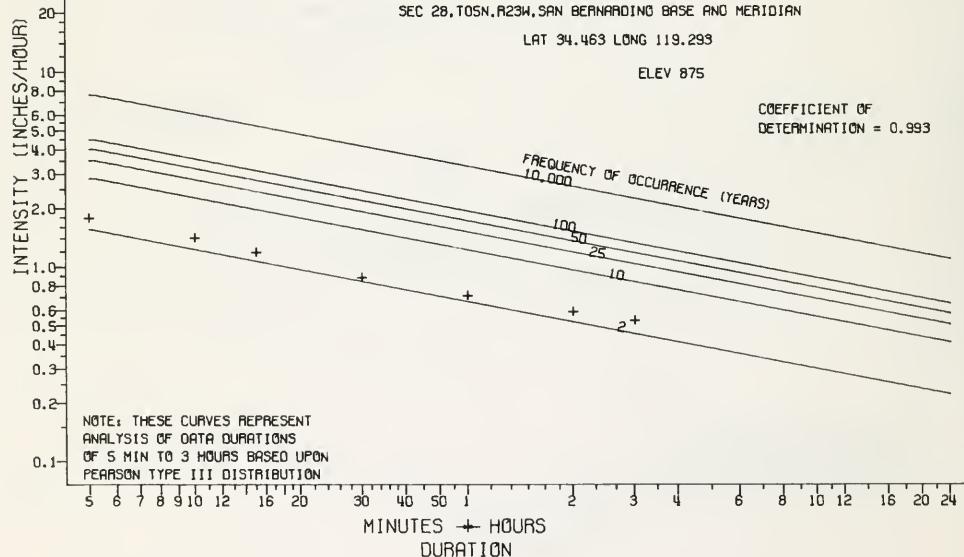


INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1968
 WHEELER SP 25SW 165STATION U02 9615 0
 VENTURA COUNTY

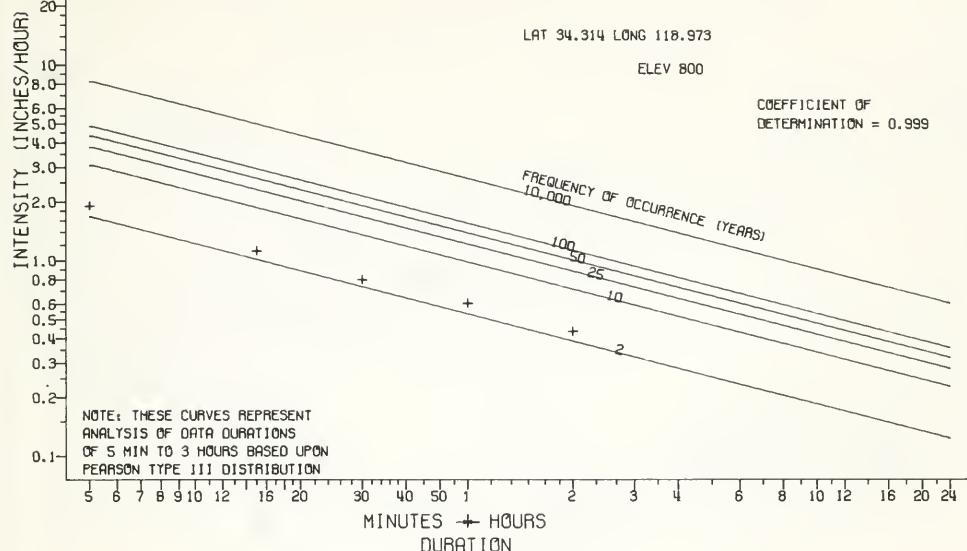
SEC 28, T05N, R23W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.463 LONG 119.293

ELEV 875

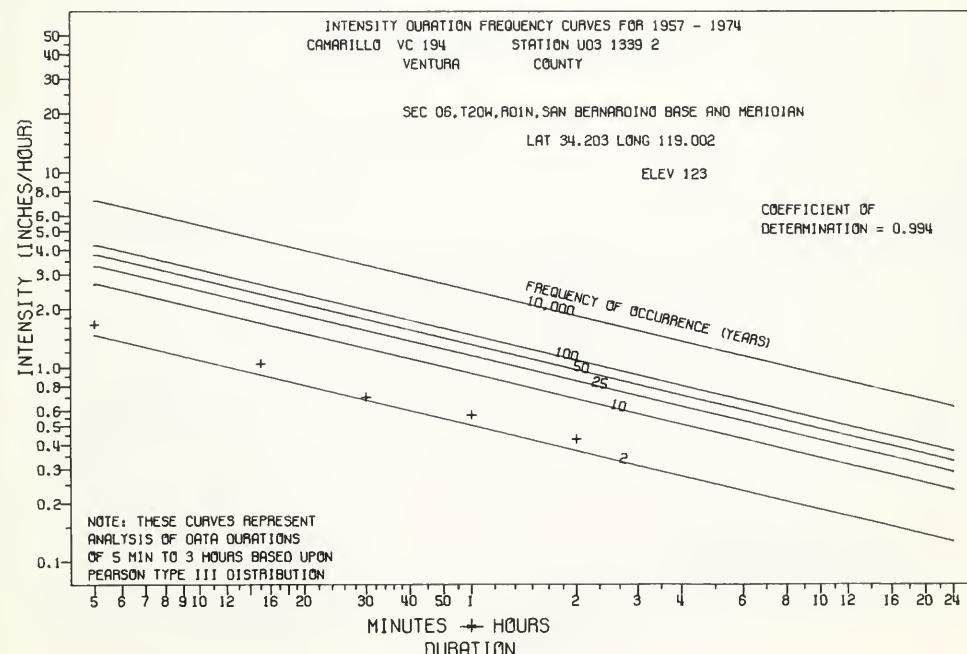
COEFFICIENT OF
 DETERMINATION = 0.993

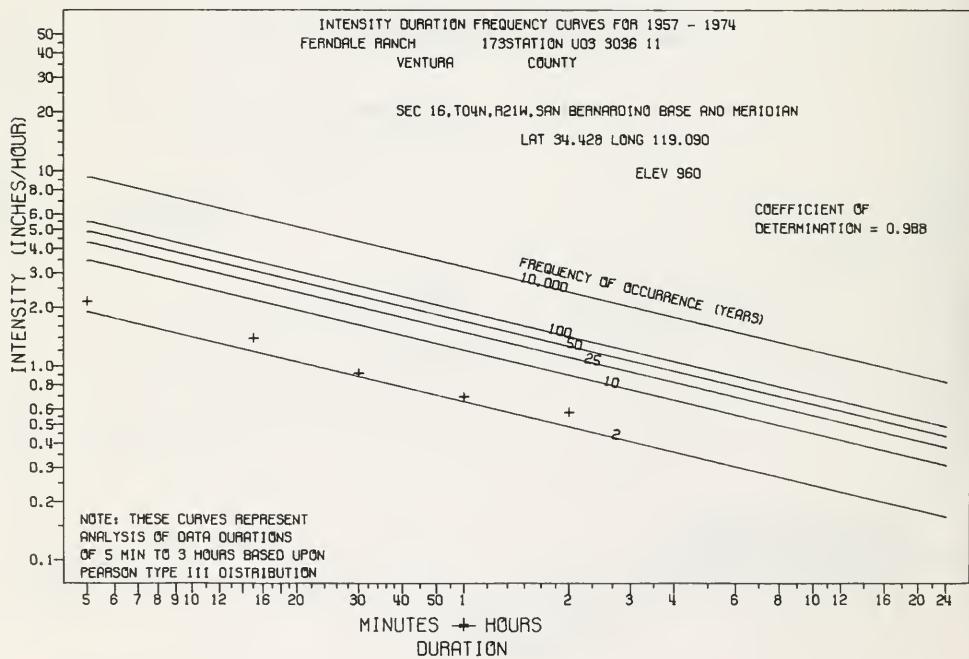
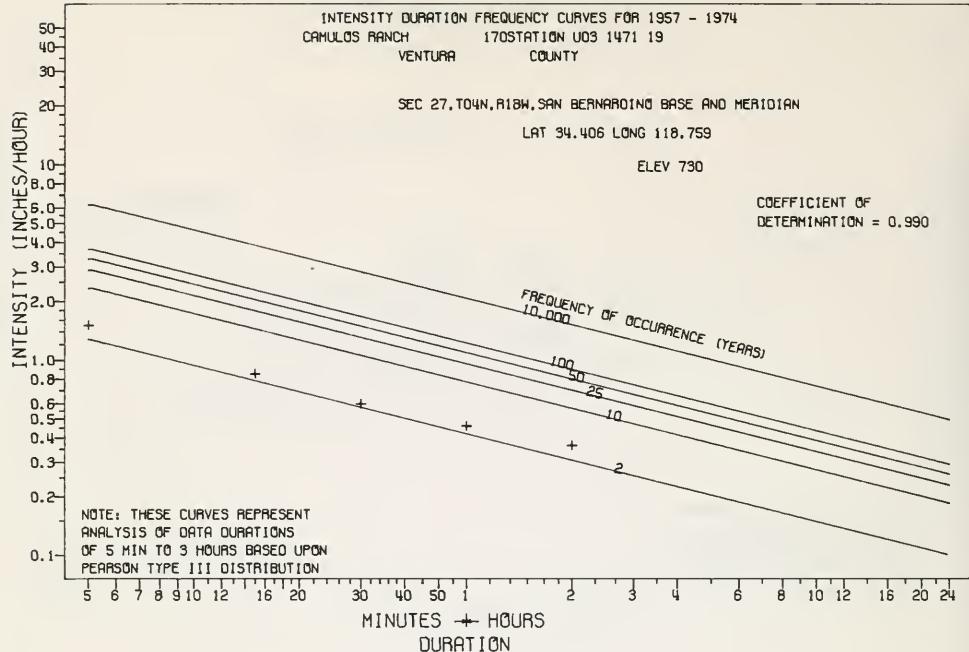


INTENSITY DURATION FREQUENCY CURVES FOR 1961 - 1974
 BALCOM CANYON 206STATION U03 450 18
 VENTURA COUNTY



INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 CAMARILLO VC 194 STATION U03 1339 2
 VENTURA COUNTY





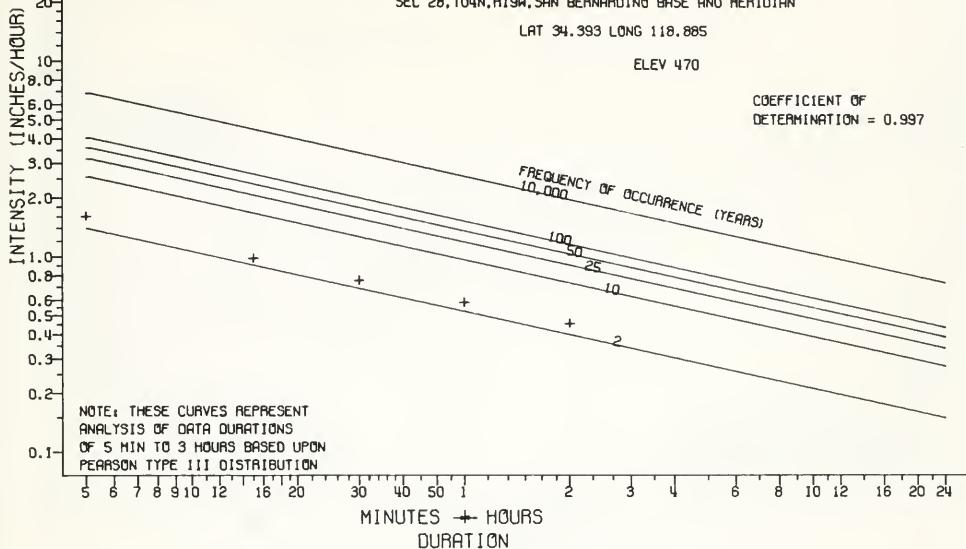
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 FILLMORE FISH HATCHERY 171 STATION U03 3050 13
 VENTURA COUNTY

SEC 28, T04N, R19W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.393 LONG 118.885

ELEV 470

COEFFICIENT OF
 DETERMINATION = 0.997

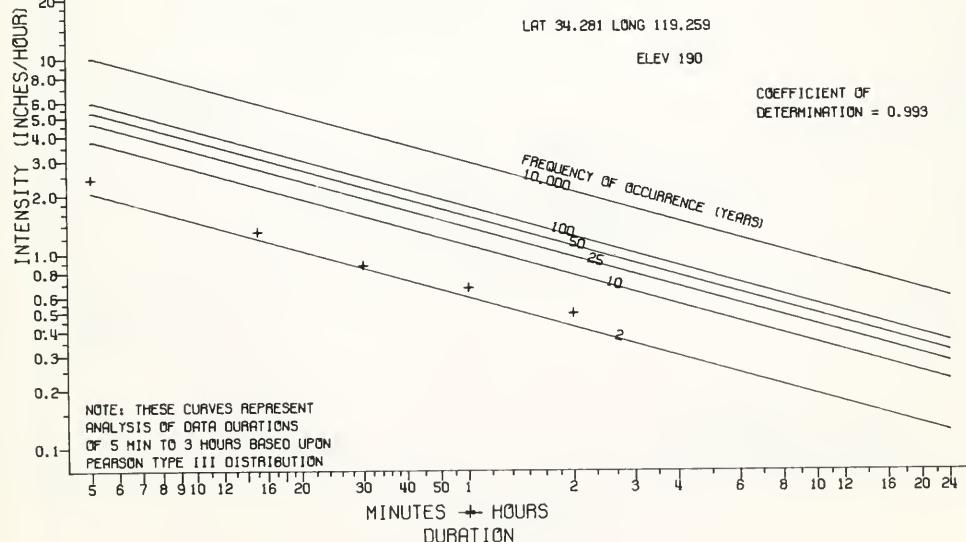


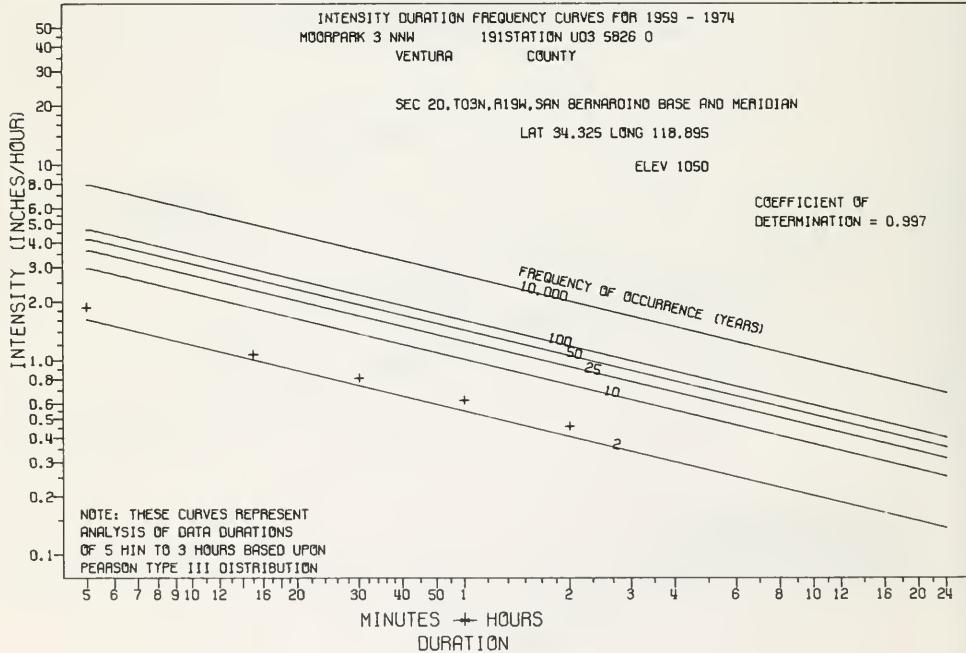
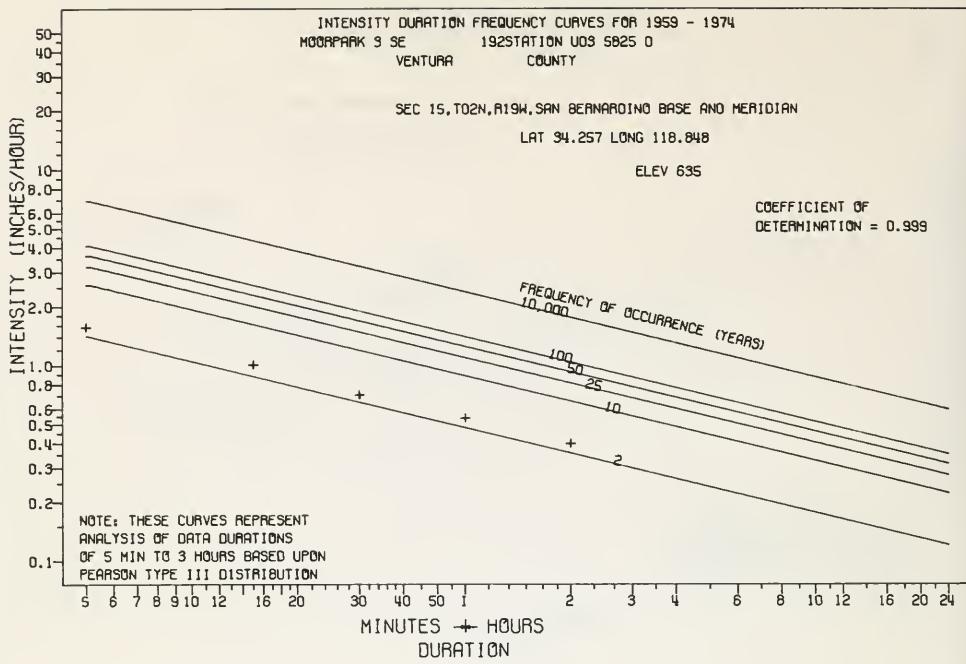
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 HALL CANYON 167 STATION U03 3715 0
 VENTURA COUNTY

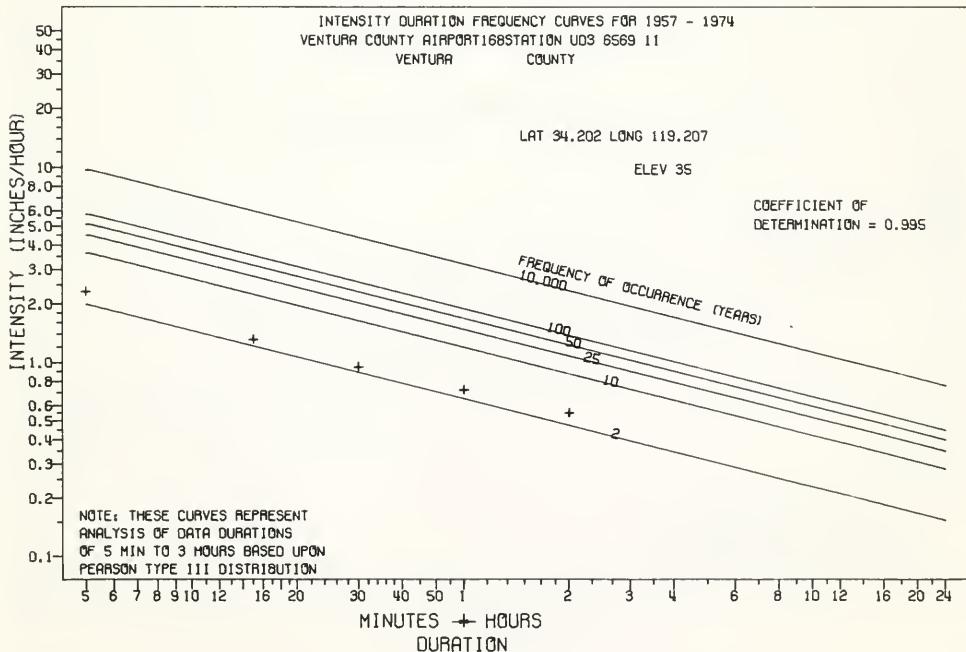
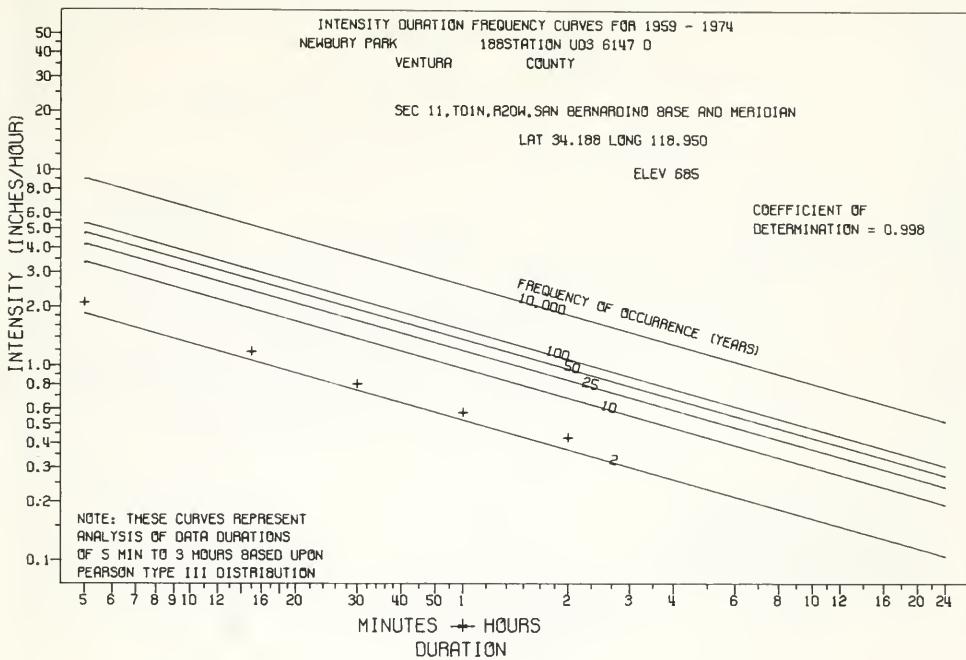
LAT 34.281 LONG 119.259

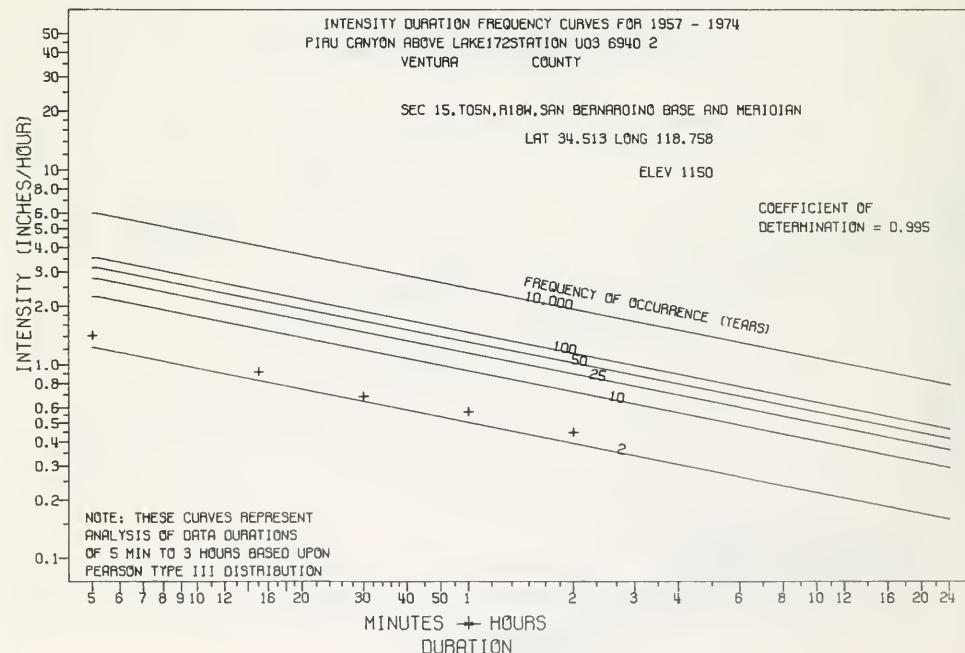
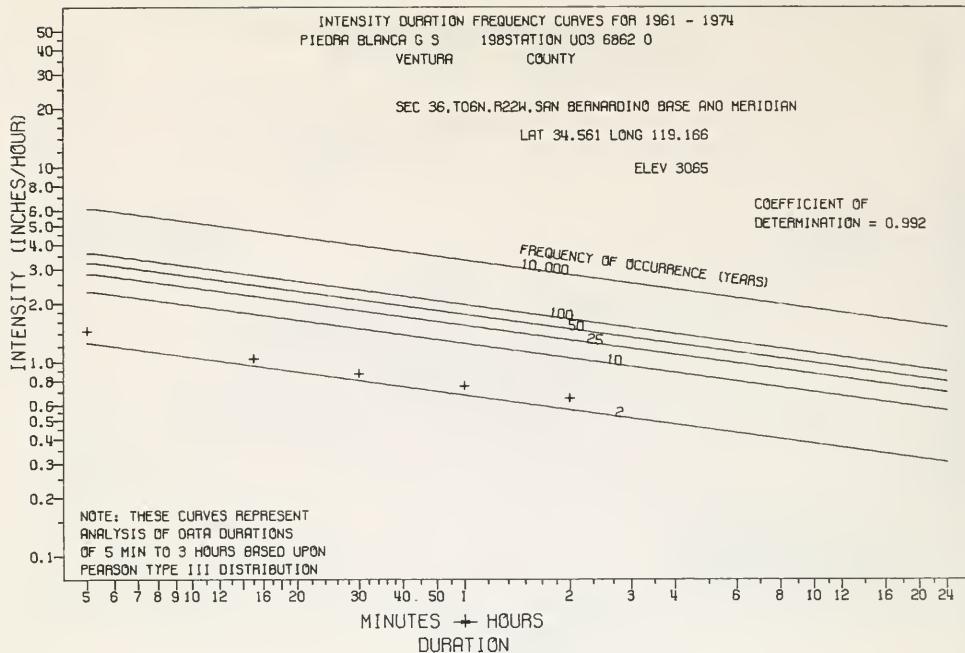
ELEV 190

COEFFICIENT OF
 DETERMINATION = 0.993









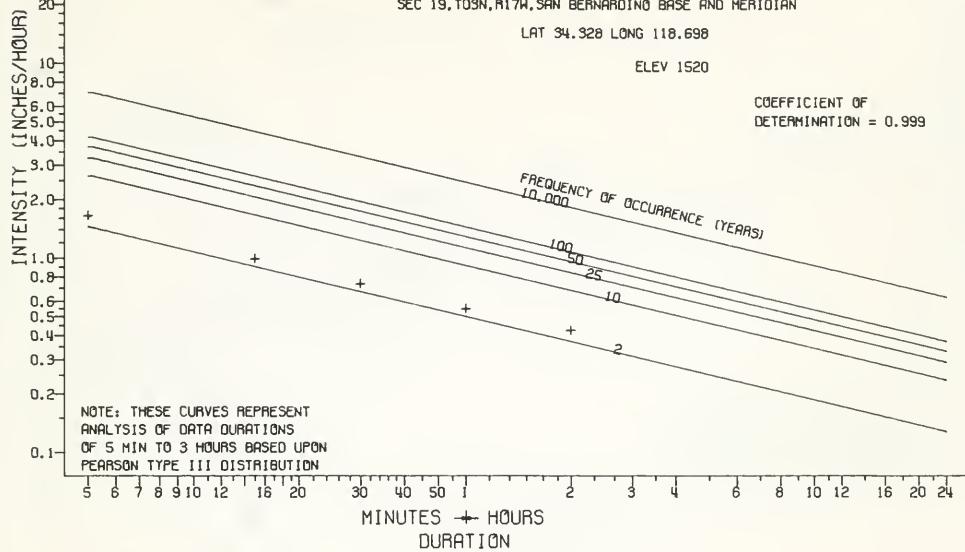
INTENSITY DURATION FREQUENCY CURVES FOR 1959 - 1974
 SANTA SUSANA 196 STATION U03 7973 0
 VENTURA COUNTY

SEC 19, T03N, R17W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.328 LONG 118.698

ELEV 1520

COEFFICIENT OF
 DETERMINATION = 0.999



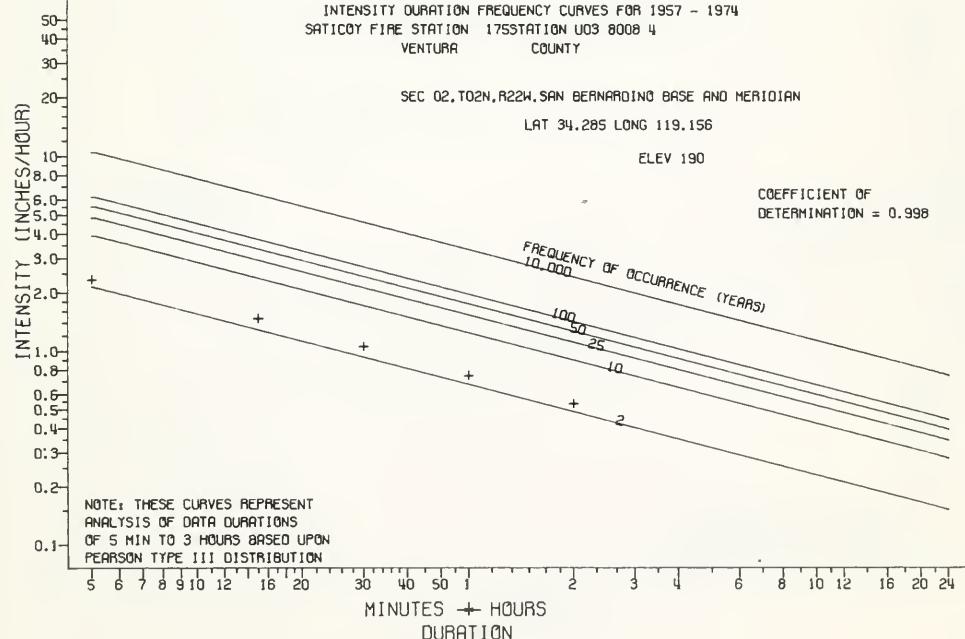
INTENSITY DURATION FREQUENCY CURVES FOR 1957 - 1974
 SATICOY FIRE STATION 175 STATION U03 8008 4
 VENTURA COUNTY

SEC 02, T02N, R22W, SAN BERNARDINO BASE AND MERIDIAN

LAT 34.285 LONG 119.156

ELEV 190

COEFFICIENT OF
 DETERMINATION = 0.998

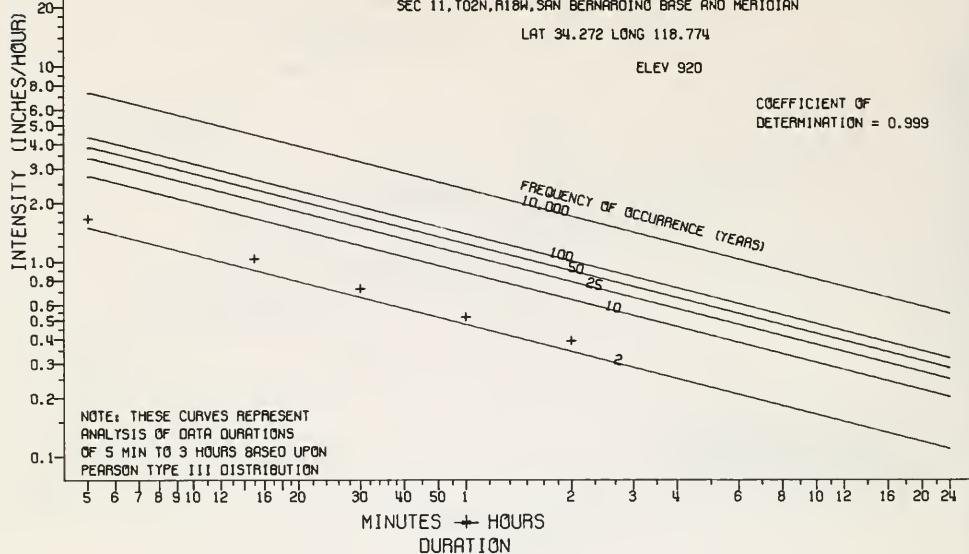


INTENSITY DURATION FREQUENCY CURVES FOR 1959 - 1974
 SIMI 3 E 193STATION UD3 8258 0
 VENTURA COUNTY

SEC 11, T02N, R18W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.272 LONG 118.774

ELEV 920

COEFFICIENT OF
 DETERMINATION = 0.999

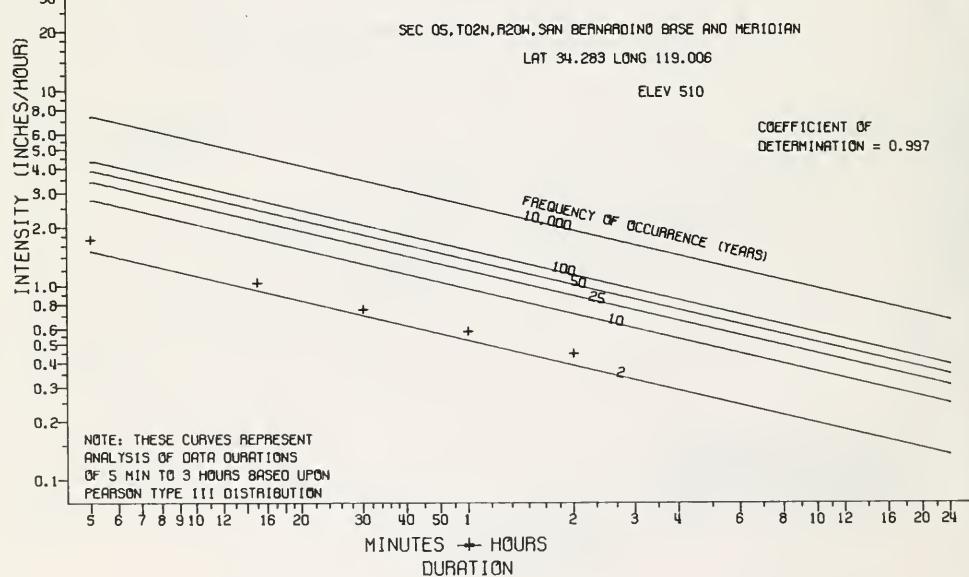


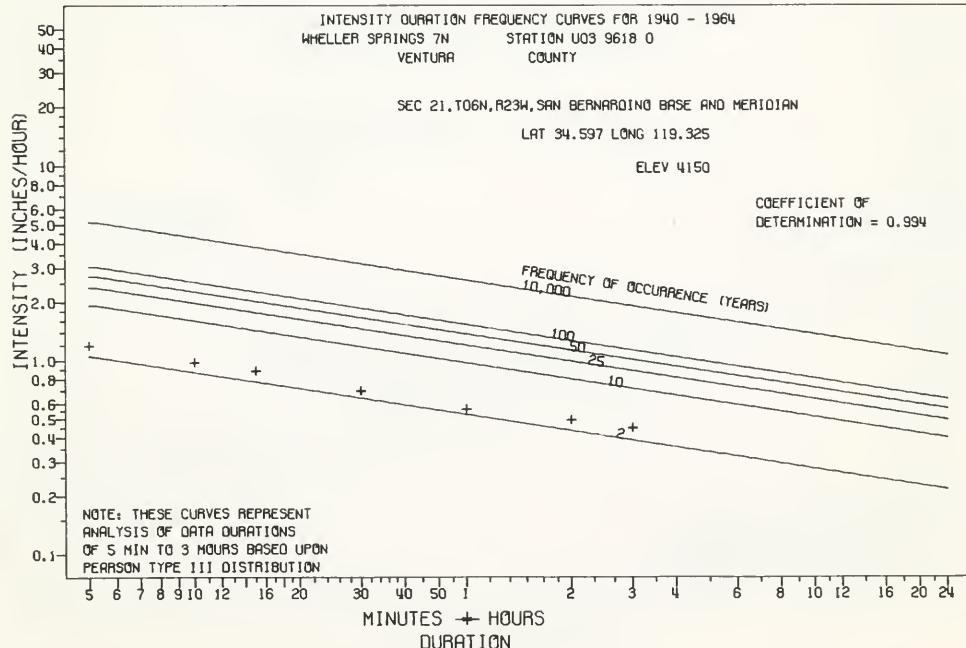
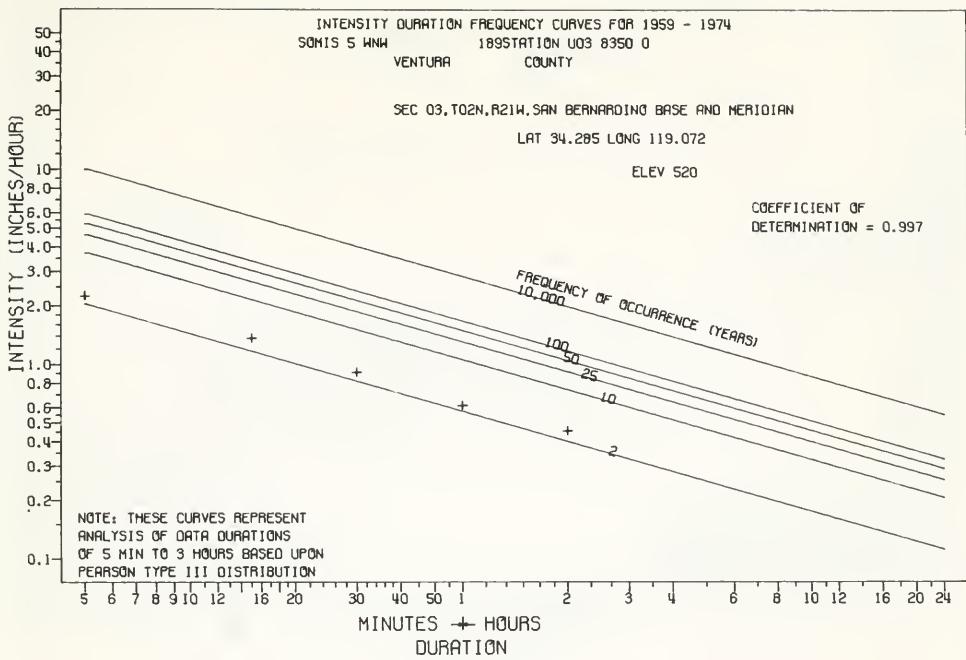
INTENSITY DURATION FREQUENCY CURVES FOR 1959 - 1974
 SOMIS 2 NW 190STATION UD3 8347 0
 VENTURA COUNTY

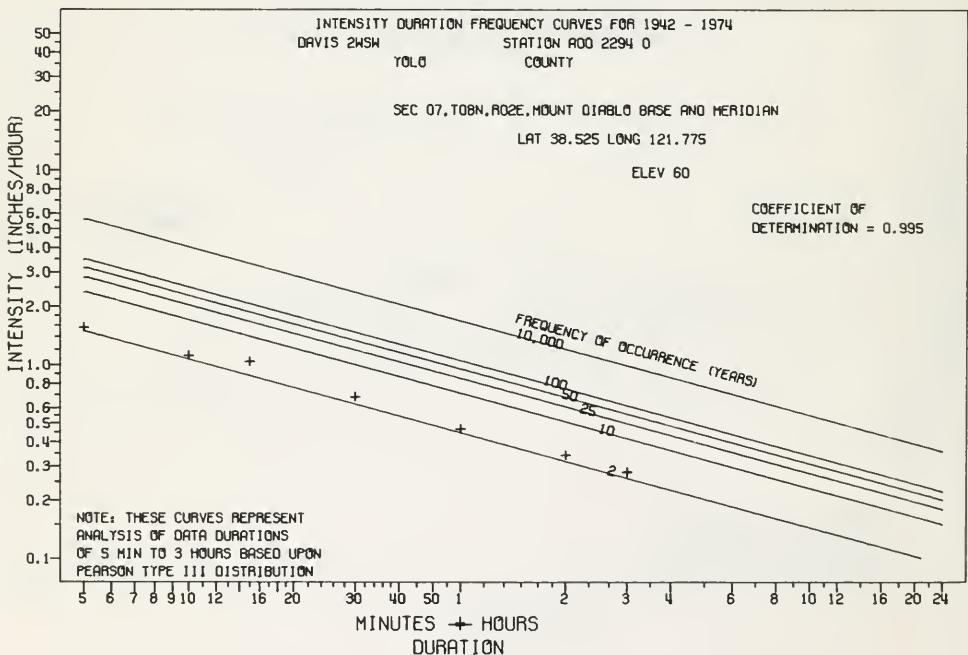
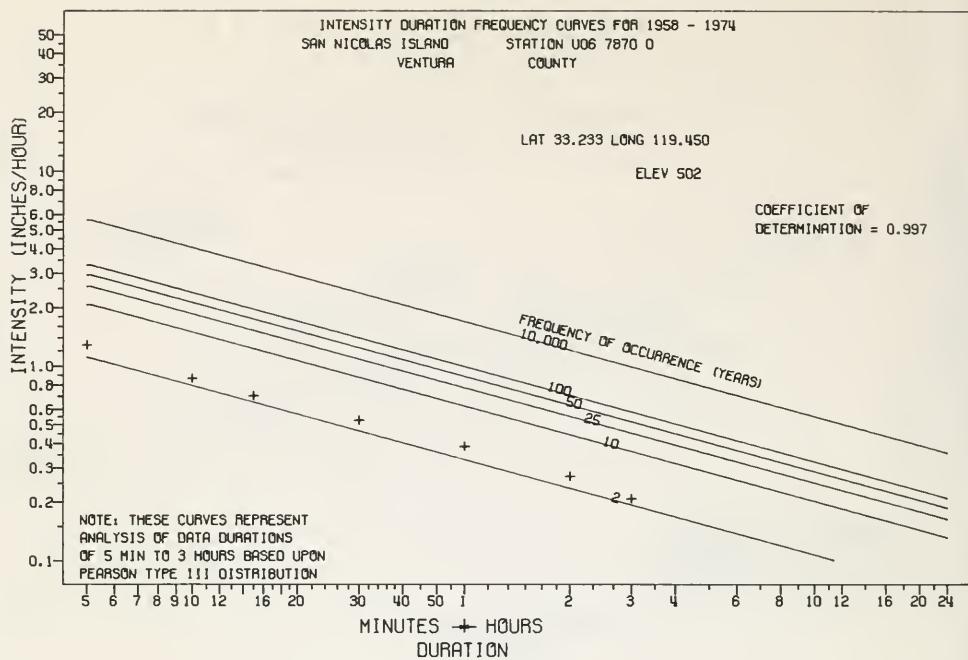
SEC 05, T02N, R20W, SAN BERNARDINO BASE AND MERIDIAN
 LAT 34.283 LONG 119.006

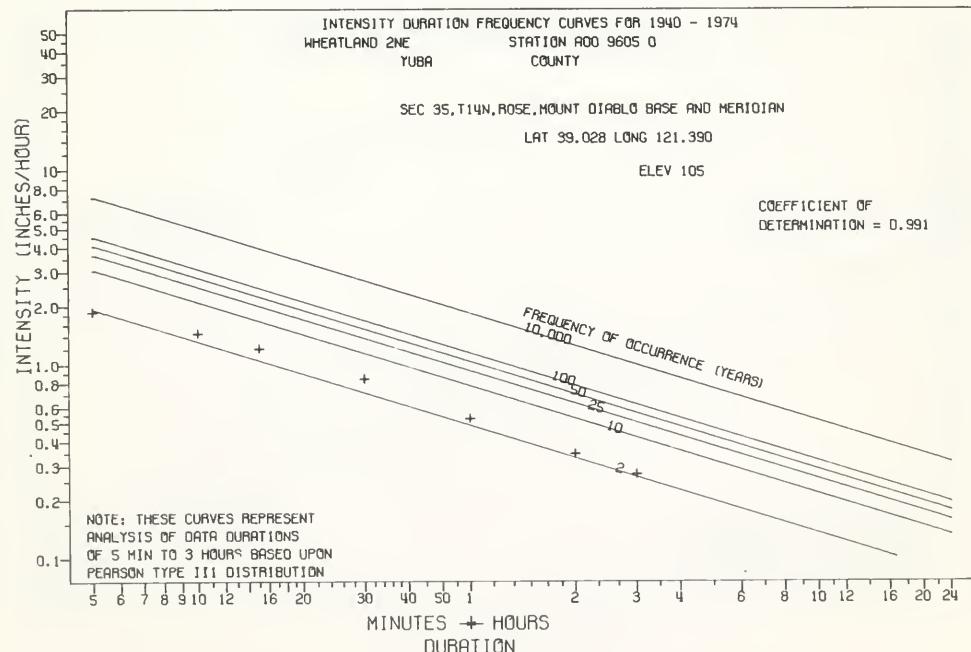
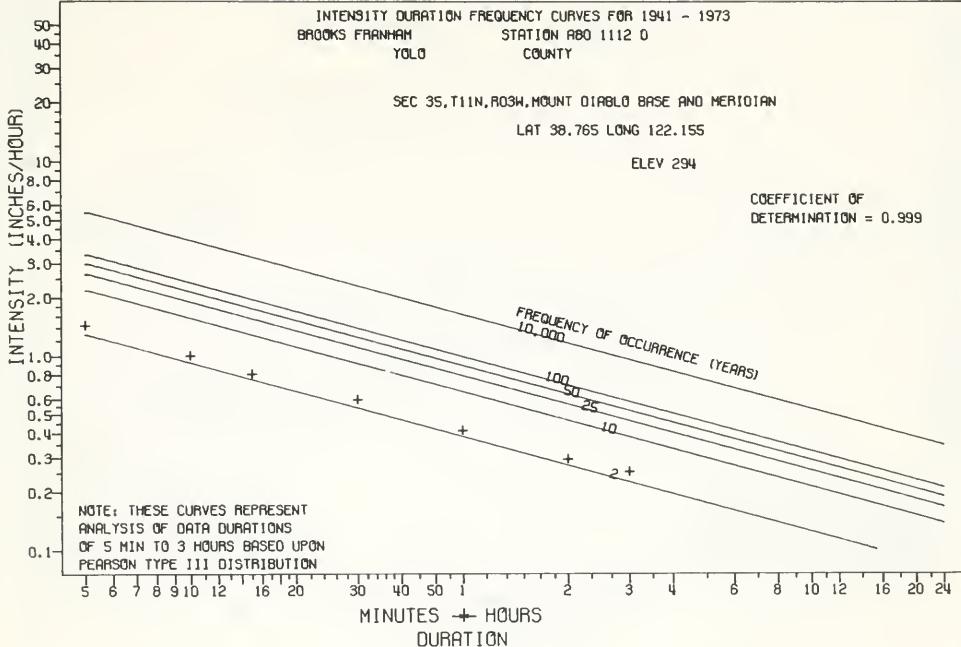
ELEV 510

COEFFICIENT OF
 DETERMINATION = 0.997









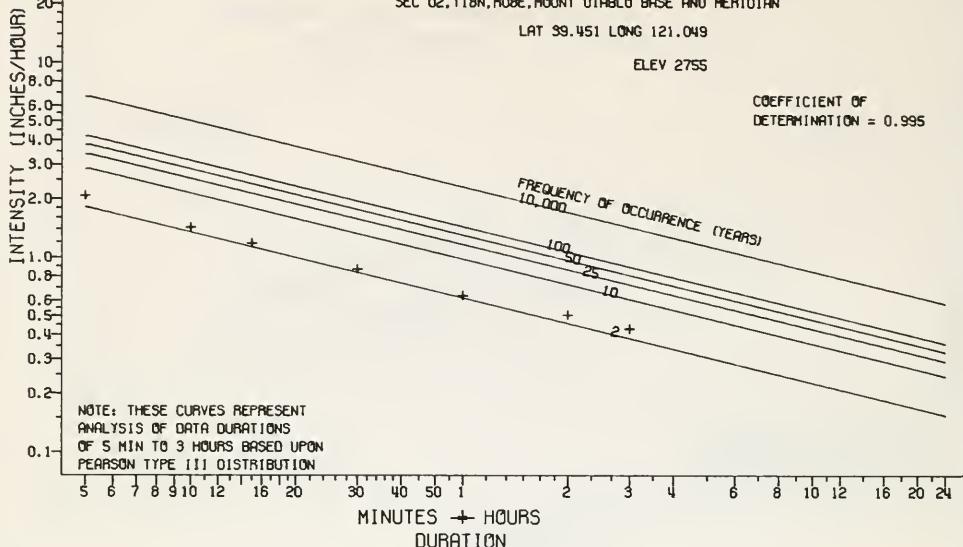
INTENSITY DURATION FREQUENCY CURVES FOR 1938 - 1974
 CAMPONVILLE STATION AGO 1462 0
 YUBA COUNTY

SEC 02, T18N, R08E, MOUNT DIABLO BASE AND MERCIOIAN

LAT 39.451 LONG 121.049

ELEV 2755

COEFFICIENT OF
 DETERMINATION = 0.995

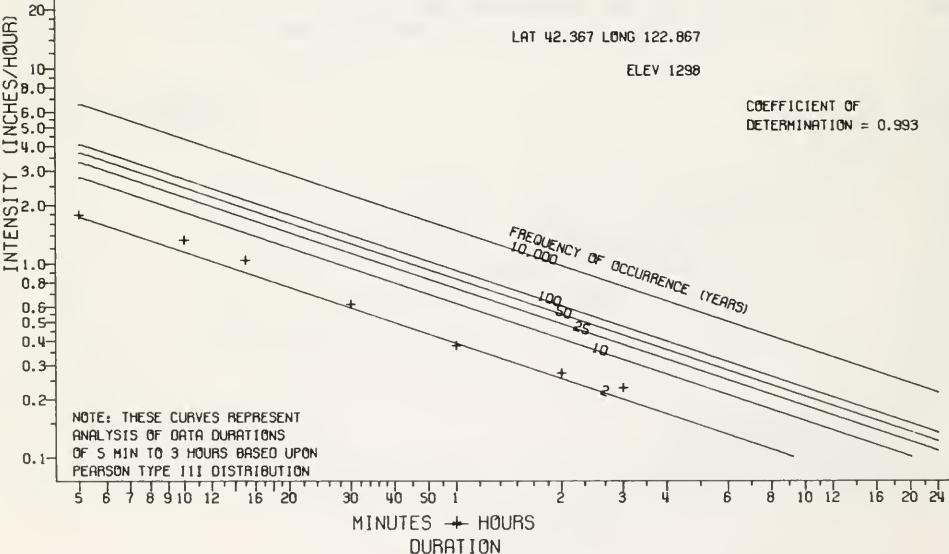


INTENSITY DURATION FREQUENCY CURVES FOR 1960 - 1974
 MEDFORD OREGON STATION F10 5505 50

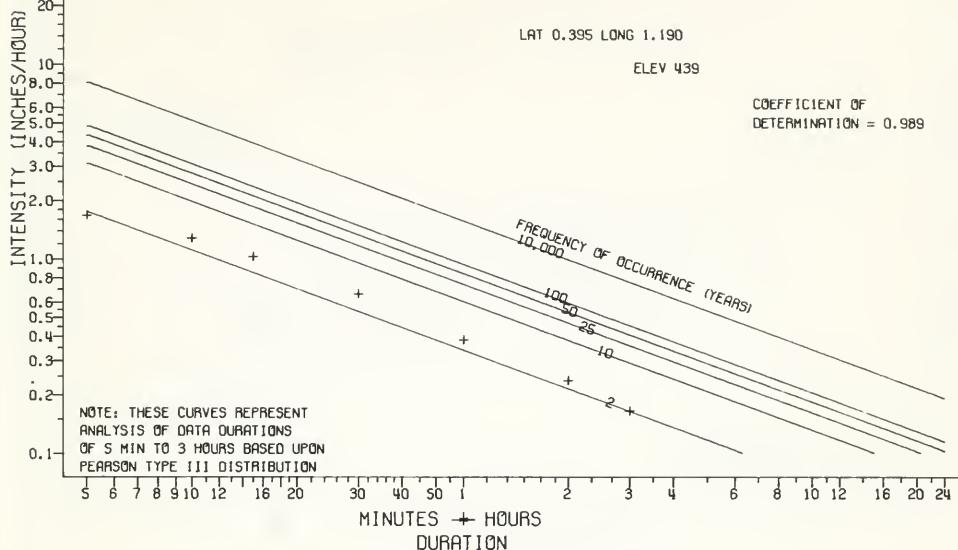
LAT 42.367 LONG 122.867

ELEV 1298

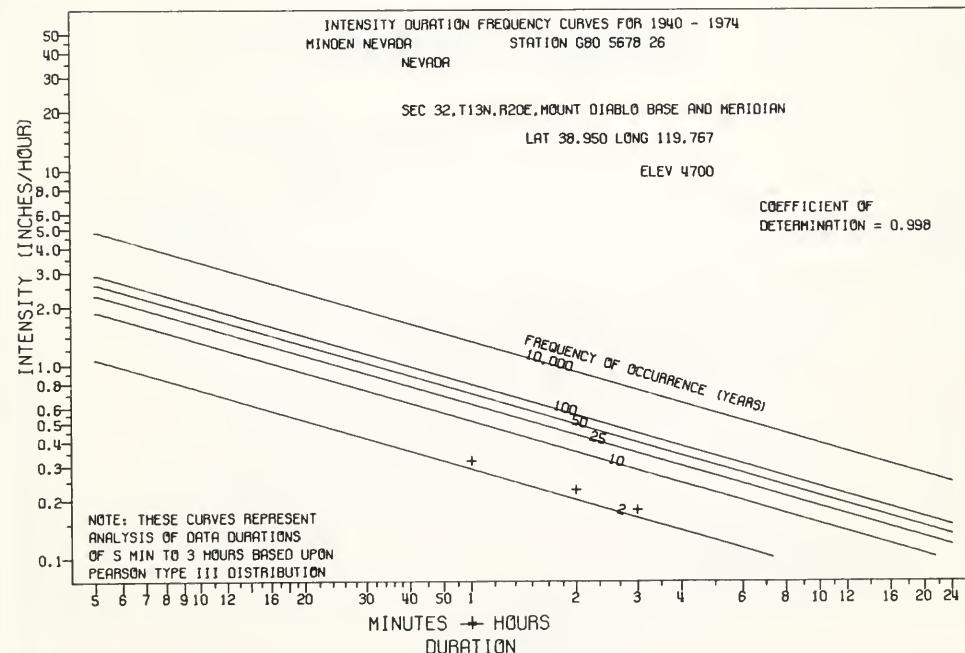
COEFFICIENT OF
 DETERMINATION = 0.993

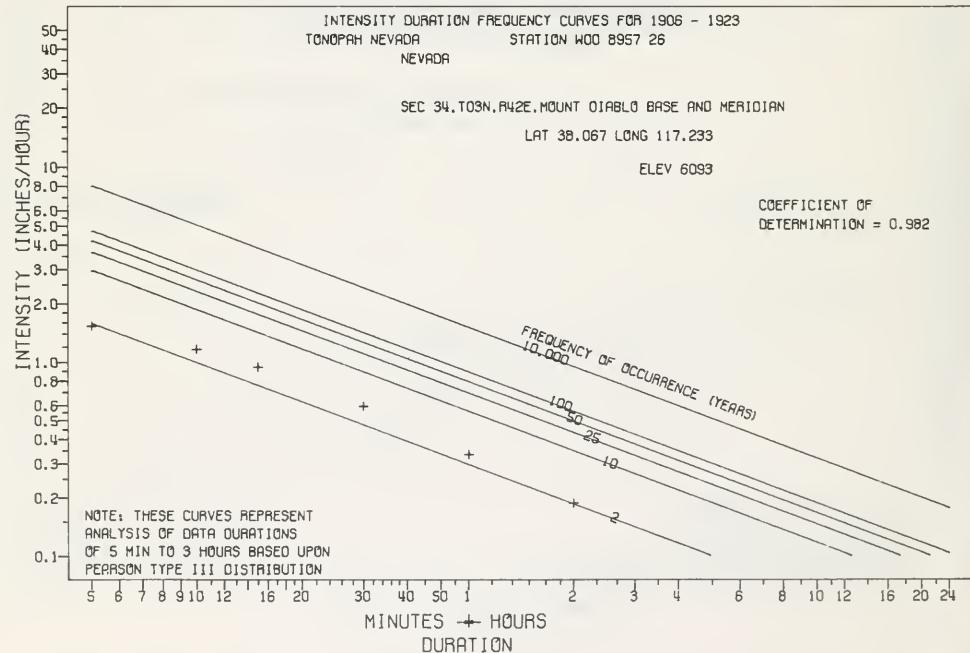
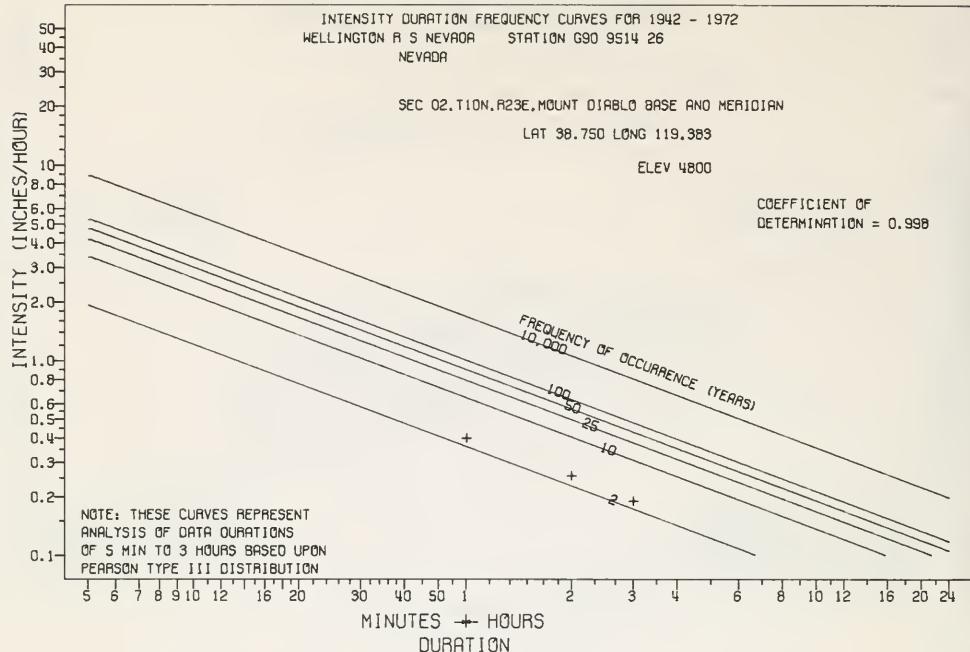


INTENSITY DURATION FREQUENCY CURVES FOR 1906 - 1975
 RENO AP NWS STATION G70 6779 26
 NEVADA



INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
 MINDEN NEVADA STATION G80 5678 26
 NEVADA





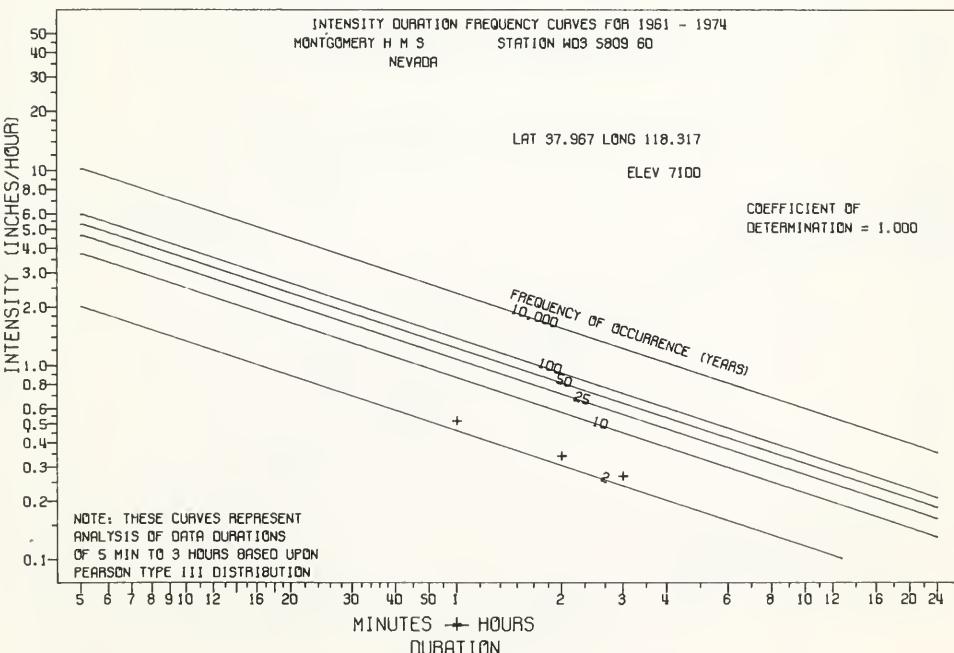
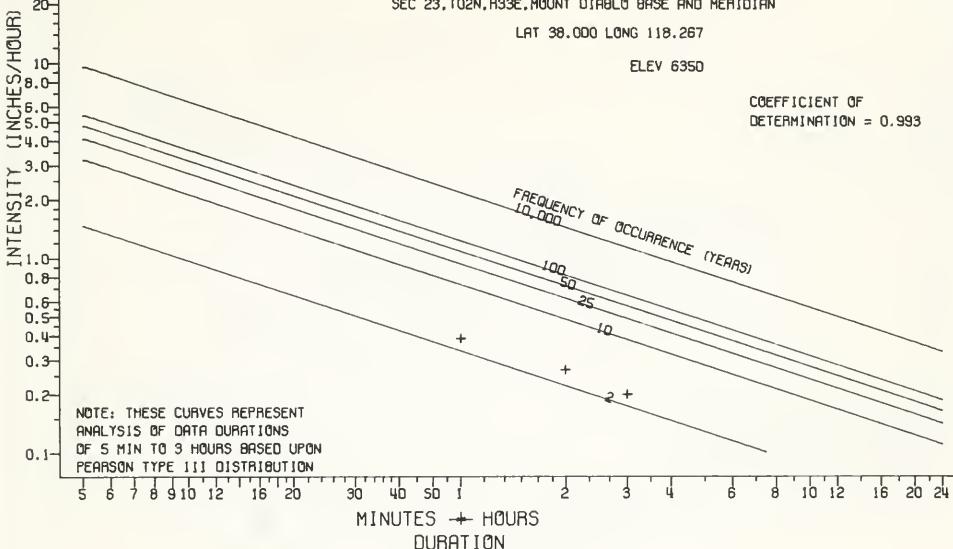
INTENSITY DURATION FREQUENCY CURVES FOR 1944 - 1957
 BASALT NEVADA STATION W03 538 26
 NEVADA

SEC 23, T02N, R33E, MOUNT DIABLO BASE AND MERIDIAN

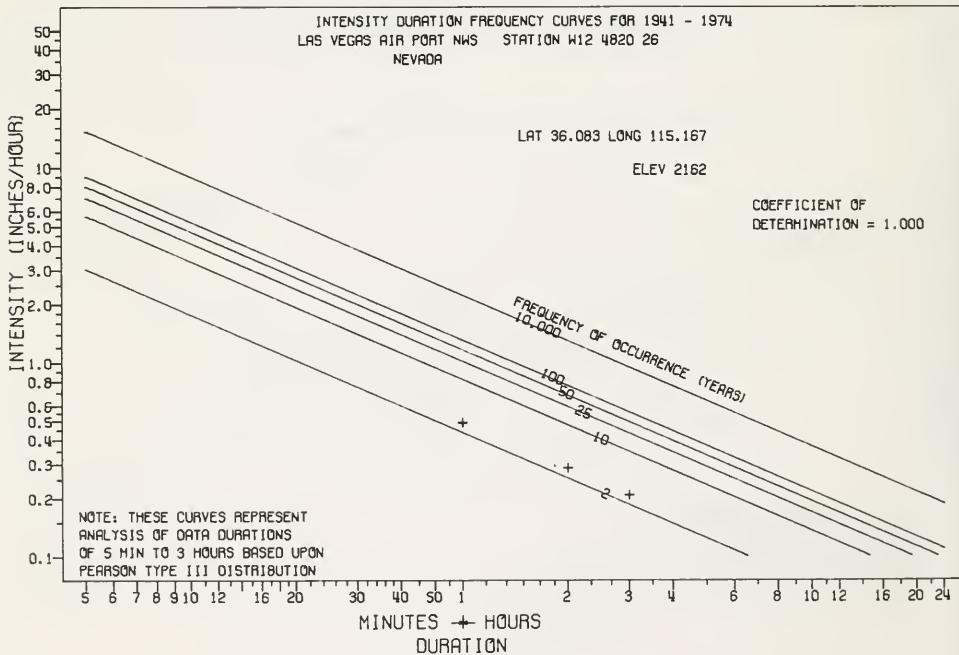
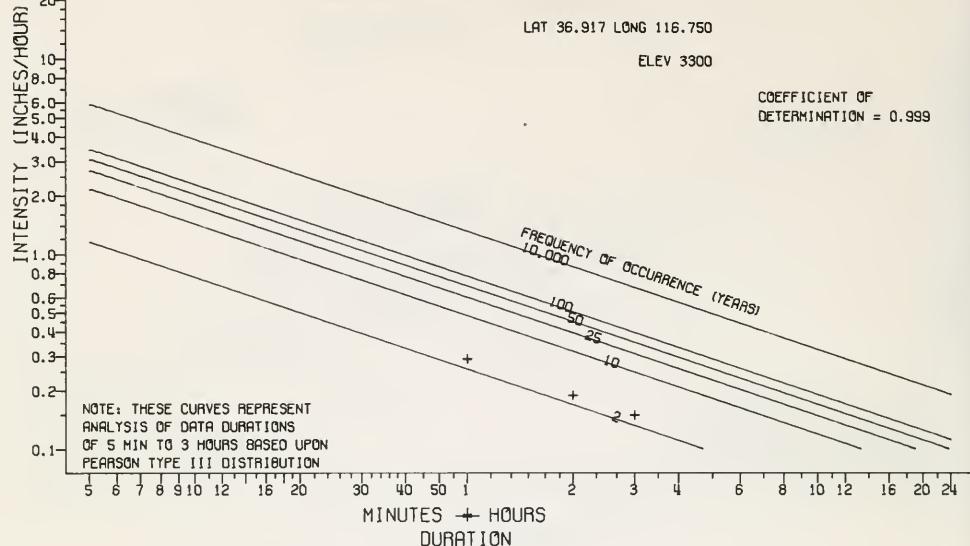
LAT 38.000 LONG 118.267

ELEV 6350

COEFFICIENT OF
 DETERMINATION = 0.993



INTENSITY DURATION FREQUENCY CURVES FOR 1940 - 1974
BEATTY NEVADA STATION W09 601 26



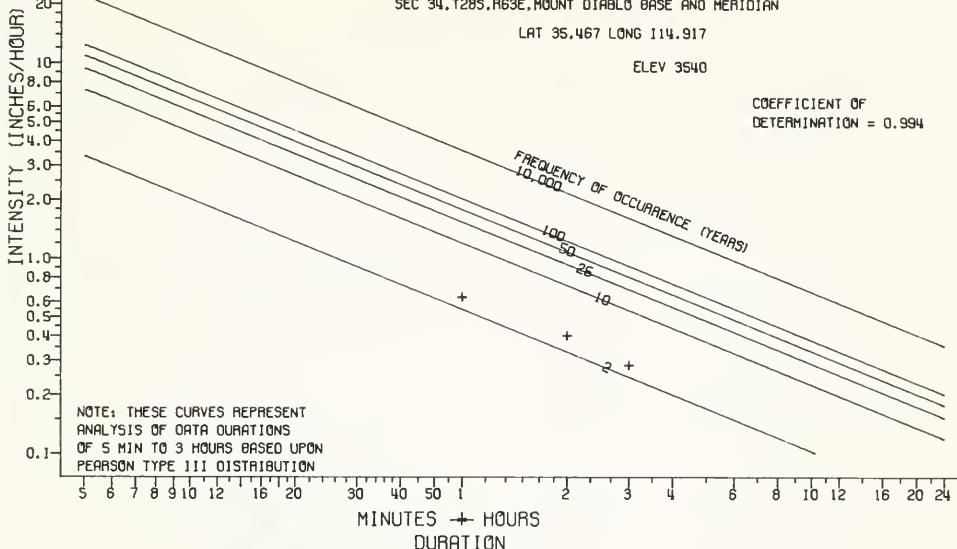
INTENSITY DURATION FREQUENCY CURVES FOR 1945 - 1974
SEARCH LIGHT NEVADA STATION X13 8064 80

SEC 34.T28S.R63E,MOUNT DIABLO BASE AND MERIDIAN

LAT 35.467 LONG 114.917

ELEV 3540

COEFFICIENT OF
DETERMINATION = 0.994



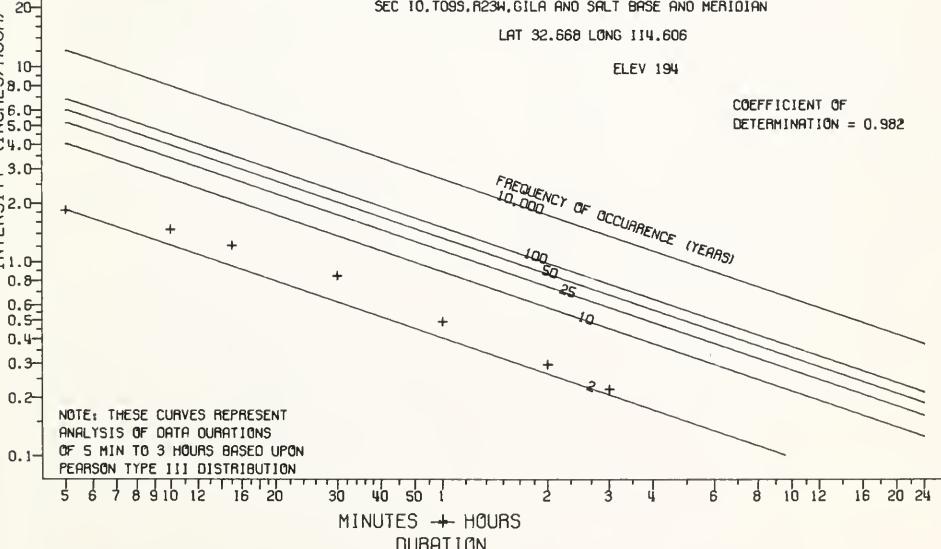
INTENSITY DURATION FREQUENCY CURVES FOR 1941 - 1975
YUMA ARIZONA AP NWS STATION X27 9890 2

SEC 10.T09S.R23W,GILA AND SALT BASE AND MERIDIAN

LAT 32.668 LONG 114.606

ELEV 194

COEFFICIENT OF
DETERMINATION = 0.982



CONVERSION FACTORS

English to Metric System of Measurement

<u>Quantity</u>	<u>English unit</u>	<u>Multiply by</u>	<u>To get metric equivalent</u>
Length	inches (in)	25.4	millimetres (mm)
		.0254	metres (m)
	feet (ft)	.3048	metres (m)
Area	miles (mi)	1.6093	kilometres (km)
	square inches (in^2)	6.4516×10^{-4}	square metres (m^2)
	square feet (ft^2)	.092903	square metres (m^2)
	acres	4046.9	square metres (m^2)
		.40469	hectares (ha)
Volume		.40469	square hectometres (hm^2)
		.0040469	square kilometres (km^2)
	square miles (mi^2)	2.590	square kilometres (km^2)
Volume/Time (Flow)	gallons (gal)	3.7854	litres (l)
		.0037854	cubic metres (m^3)
	million gallons (10^6 gal)	3785.4	cubic metres (m^3)
	cubic feet (ft^3)	.028317	cubic metres (m^3)
	cubic yards (yd^3)	.76455	cubic metres (m^3)
	acre-feet (ac-ft)	1233.5	cubic metres (m^3)
		.0012335	cubic hectometres (hm^3)
Mass		1.233×10^{-6}	cubic kilometres (km^3)
	cubic feet per second (ft^3/s)	28.317	
		.028317	litres per second (l/s)
	gallons per minute (gal/min)	.06309	cubic metres per second (m^3/s)
		6.309×10^{-5}	litres per second (l/s)
Power	million gallons per day (mgd)	.043813	cubic metres per second (m^3/s)
	pounds (lb)	.45359	kilograms (kg)
	tons (short, 2,000 lb)	.90718	tonne (t)
Pressure		907.18	kilograms (kg)
	horsepower (hp)	0.7460	kilowatts (kW)
Temperature	pounds per square inch (psi)	6894.8	pascal (Pa)
Temperature	Degrees Fahrenheit ($^{\circ}F$)	$\frac{t_F - 32}{1.8} = t_C$	Degrees Celsius ($^{\circ}C$)



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